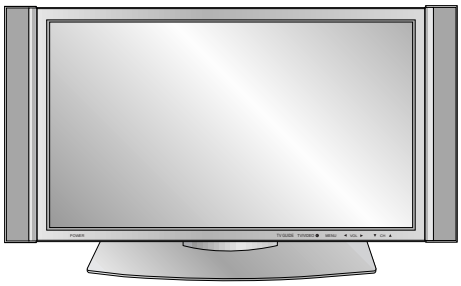
website:http://biz.LGservice.com
e-mail:http://www.LGEservice.com/techsup.html

PLASMA TV
SERVICE MANUAL

CHASSIS : RF-043B

CAUTION
BEFORE SERVICING THE CHASSIS,
READ THE SAFETY PRECAUTIONS IN THIS MANUAL.



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SAFETY PRECAUTIONS

IMPORTANT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These parts are identified by ⚠ in the Schematic Diagram and Replacement Parts List.
It is essential that these special safety parts should be replaced with the same components as recommended in this manual to prevent X-RADIATION, Shock, Fire, or other Hazards.
Do not modify the original design without permission of manufacturer.

General Guidance

An **isolation Transformer should always be used** during the servicing of a receiver whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks.

It will also protect the receiver and it's components from being damaged by accidental shorts of the circuitry that may be inadvertently introduced during the service operation.

If any fuse (or Fusible Resistor) in this monitor is blown, replace it with the specified.

When replacing a high wattage resistor (Oxide Metal Film Resistor, over 1W), keep the resistor 10mm away from PCB.

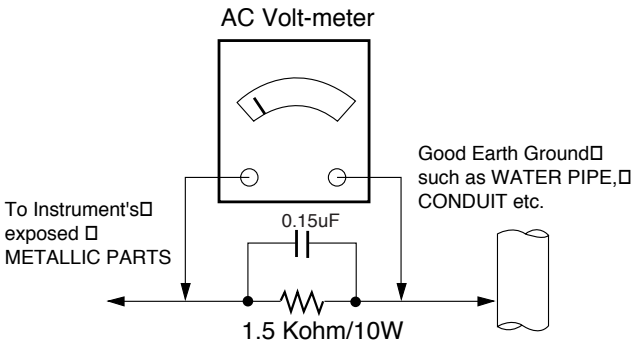
Keep wires away from high voltage or high temperature parts.

Due to high vacuum and large surface area of picture tube, extreme care should be used in **handling the Picture Tube**. Do not lift the Picture tube by it's Neck.

Leakage Current Cold Check(Antenna Cold Check)
With the instrument AC plug removed from AC source, connect an electrical jumper across the two AC plug prongs. Place the AC switch in the on position, connect one lead of ohm-meter to the AC plug prongs tied together and touch other ohm-meter lead in turn to each exposed metallic parts such as antenna terminals, phone jacks, etc.
If the exposed metallic part has a return path to the chassis, the measured resistance should be between 1MΩ and 5.2MΩ.
When the exposed metal has no return path to the chassis the reading must be infinite.
An other abnormality exists that must be corrected before the receiver is returned to the customer.

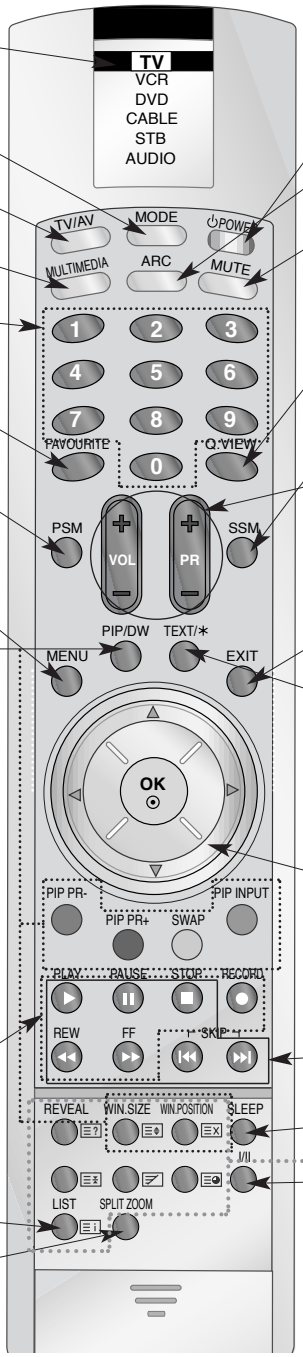
Leakage Current Hot Check (See below Figure)
Plug the AC cord directly into the AC outlet.
Do not use a line Isolation Transformer during this check.
Connect 1.5K/10watt resistor in parallel with a 0.15uF capacitor between a known good earth ground (Water Pipe, Conduit, etc.) and the exposed metallic parts.
Measure the AC voltage across the resistor using AC voltmeter with 1000 ohms/volt or more sensitivity.
Reverse plug the AC cord into the AC outlet and repeat AC voltage measurements for each exposed metallic part. Any voltage measured must not exceed 0.75 volt RMS which is corresponds to 0.5mA.
In case any measurement is out of the limits specified, there is possibility of shock hazard and the set must be checked and repaired before it is returned to the customer.

Leakage Current Hot Check circuit



DESCRIPTION OF CONTROLS

- When using the remote control aim it at the remote control sensor of the set.
- There's maybe a defect in consecutive operation of remote control in specified brightness according to this set feature.



Displays the selected device.

MODE
Selects another device.

TV/AV
Selects the TV, AV, Component, RGB or DVI modes.

MULTIMEDIA
Selects the Component, RGB or DVI modes.

NUMBER buttons

FAVOURITE
Selects a favorite programme.

PSM
Adjusts the factory preset picture according to the room.

MENU
Displays on screen menus one by one.
Exits the current menu.
Memorizes menu changes.

PIP/DW
Switches the sub picture on or off.
Selects PIP or DW modes.
PIP PR + /-
Selects a program for the sub picture.
SWAP
Alternates between main and sub picture.
PIP INPUT
Selects the input mode for the sub picture.
WIN.SIZE
Adjusts the sub picture size.
WIN.POSITION
Moves the sub picture to ▲ / ▼ or ◄ / ► direction.

VCR BUTTONS
Controls a LG video cassette recorder.

LIST
Displays the program table.

SPLIT ZOOM
Enlarge the screen with regular ration.

POWER
Switches the set on from standby or off to standby.

ARC
Changes the picture format.

MUTE
Switches the sound on or off.

Q.VIEW
Returns to the previously viewed programme.

SSM
To select the sound appropriate to your viewing programme character.

VOL +/- (Volume Up/Down)
Increases/decreases sound level.
PR +/- (Programme Up/Down)
Selects a programme.

EXIT
Clears all on-screen displays and returns to TV viewing from any menu.

TEXT/* (option)
These buttons are used for teletext.
For further details, see the 'Teletext' section.
Note : In teletext mode, the **PIP PR +/-**, **SWAP** and **PIP INPUT** buttons are used for teletext function.

OK
accepts your selection or displays the current mode.

▲ / ▼ or ◄ / ►
Adjusts menu settings.
Selects menu item.

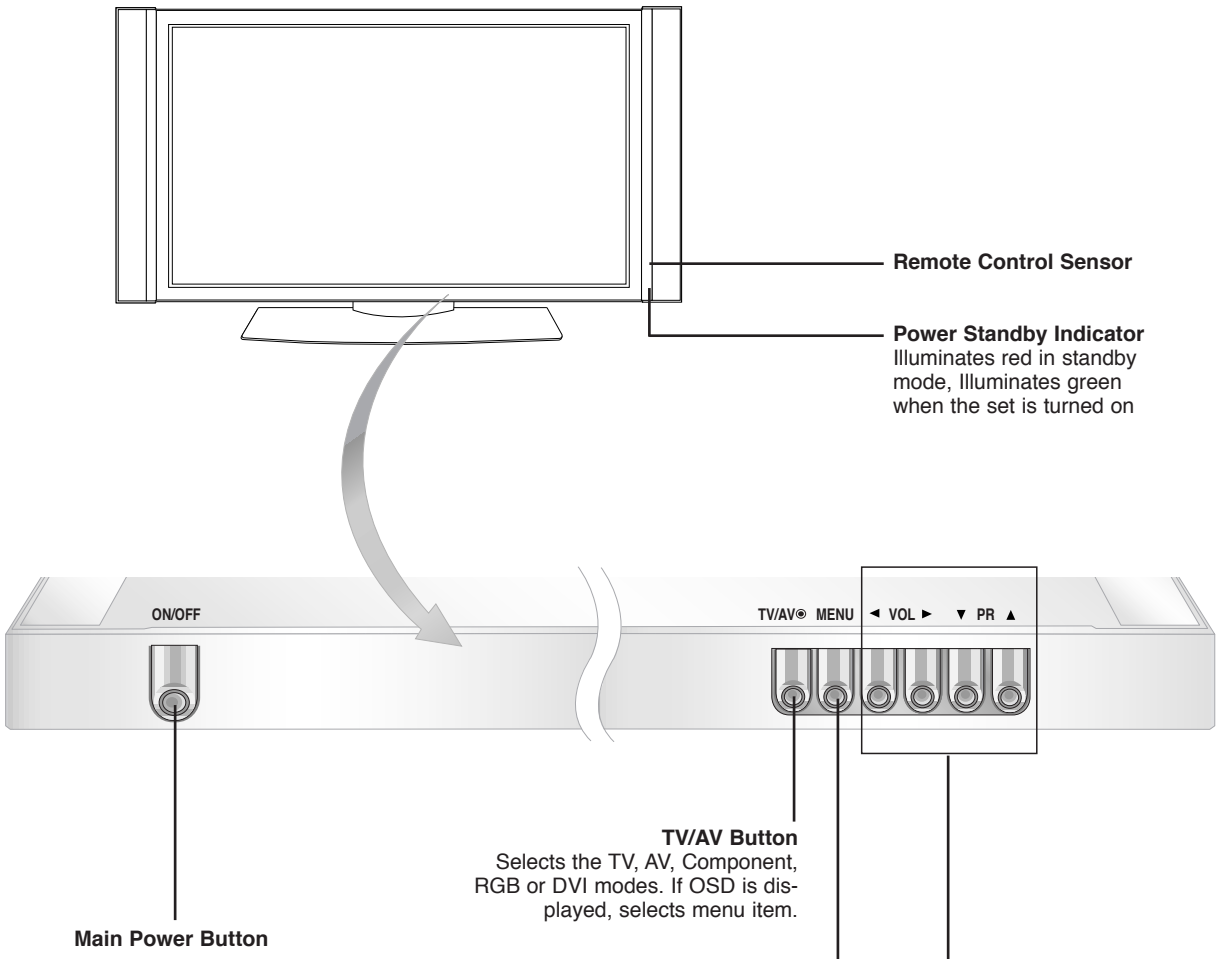
DVD BUTTONS
Controls a LG DVD player.

SLEEP
Sets the sleep timer.

I/II
Selects the language during dual language broadcast.
Selects the sound output.

- Shown is a simplified representation of the set.
- Here shown may be somewhat different from your set.

<Front Panel Controls>



Remote Control Sensor

Power Standby Indicator
Illuminates red in standby mode, Illuminates green when the set is turned on

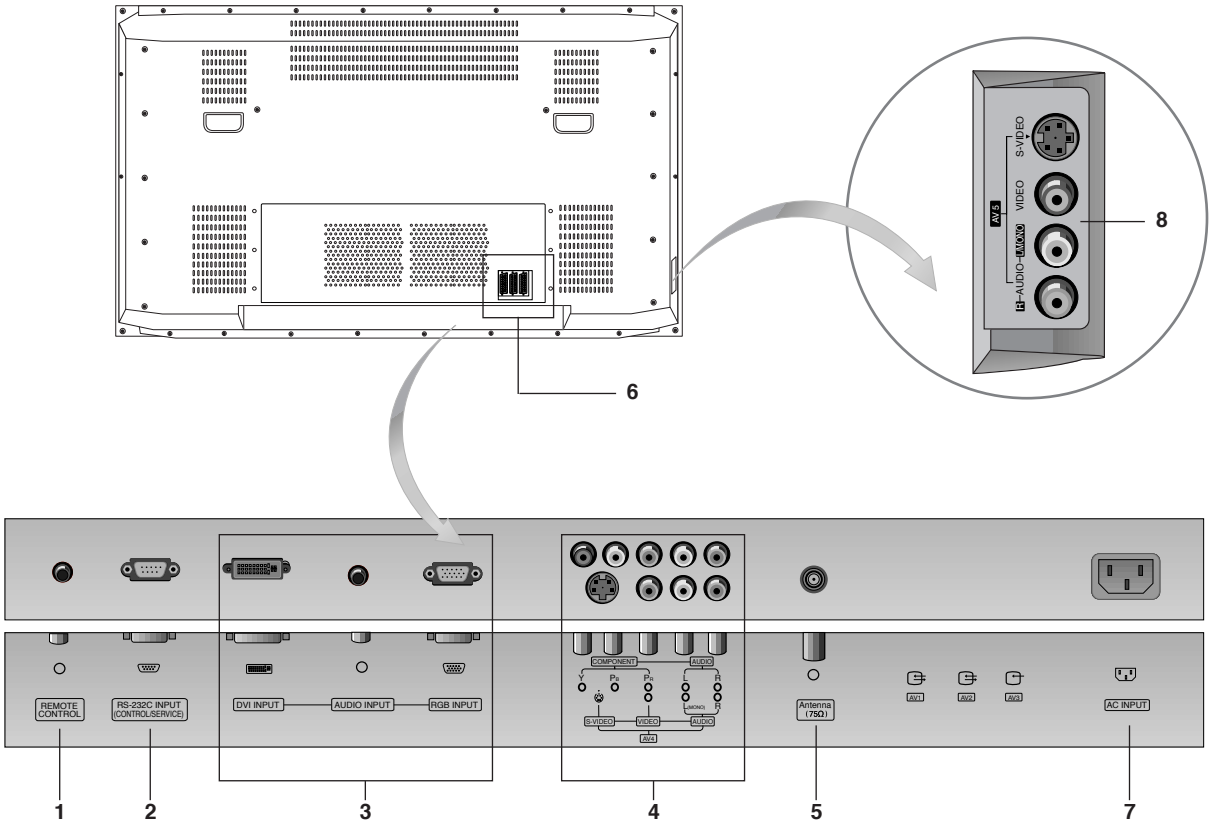
Main Power Button

TV/AV Button
Selects the TV, AV, Component, RGB or DVI modes. If OSD is displayed, selects menu item.

MENU
Displays on screen menus one by one.
Exits the current menu.
Memorizes menu changes.

▲ / ▼ (Programme Up/Down)
selects a programme or a menu item.
switches the set on from standby.
◄ / ► (Volume Up/Down)
adjusts the volume.
adjusts menu settings.

<Back Panel>



1. REMOTE CONTROL

2. RS-232C INPUT(CONTROL/SERVICE) PORT
Connect to the RS-232C port on a PC.

3. DVI INPUT / AUDIO INPUT / RGB INPUT
Connect the monitor output socket of the PERSONAL COMPUTER to this socket.
Note: If you want to use RGB/DVI audio, we strongly recommend that you use the cable that has a core, or the EMI Fillter core along with separete cable.

4. COMPONENT INPUT
Connect DVD video outputs to Y, P_B, P_R of COMPONENT INPUT and audio outputs to Audio sockets of AUDIO INPUT.

AUDIO/VIDEO IN SOCKETS (AV4)
Connect the audio/video out sockets of external equipment to these sockets.
S-VIDEO/AUDIO IN SOCKETS
Connect the S-VIDEO out socket of an VCR to the **S-VIDEO** socket.
Connect the audio out sockets of the VCR to the audio sockets as in **AV4**.

5. ANTENNA INPUT

6. EURO SCART SOCKET
Connect the euro scart socket of the VCR to these sockets.

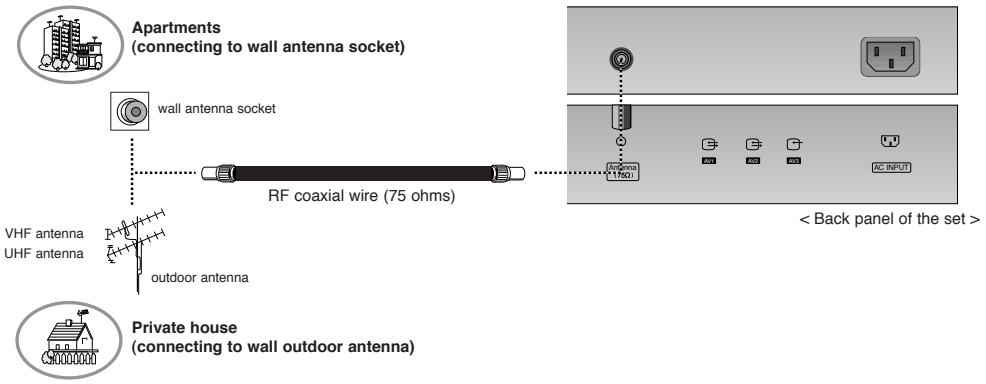
7. POWER CORD SOCKET
This Monitor operates on an AC power. The voltage is indicated on the Specifications page. Never attempt to operate the Monitor on DC power.

8. AUDIO/VIDEO IN SOCKETS (AV5)
S-VIDEO/AUDIO IN SOCKETS

External Equipment Viewing Setups

Antenna Connection

- Be careful for the bronze wire not to be bended in connecting to antenna input port.



Watching VCR

- When connecting the set to external equipment, match the colours of connecting ports (Video - yellow, Audio (L) - white, Audio (R) -red).
- Connect the VIDEO INPUT socket (yellow) to the VIDEO INPUT on the set.
- If you have a mono VCR, connect the audio cable from the VCR to the AUDIO (L/MONO) input on the set.
- If you connect an S-VIDEO VCR to the S-VIDEO input, the picture quality is improved; compared to connecting a regular VCR to the Video input.
  Or, connect the Euro scart socket of the VCR to the Euro scart socket of the set.
- Use the orbiter function to Avoid having a fixed image remain on the screen for a long period of time. Typically a frozen still picture from a VCR. (Refer to p. 25)
  If a 4:3 picture format is used; the fixed image may remain visible on the screen.
- To avoid picture noise (interference), leave an adequate distance between the VCR and set.

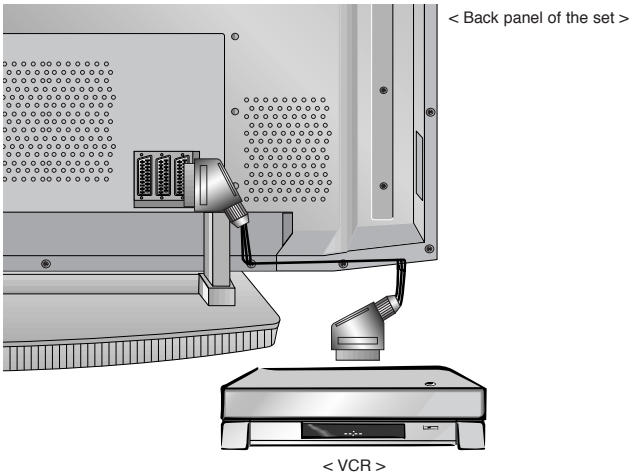
Watching TV programmes

- Turn the set on and select the programme you want.

Watching VCR

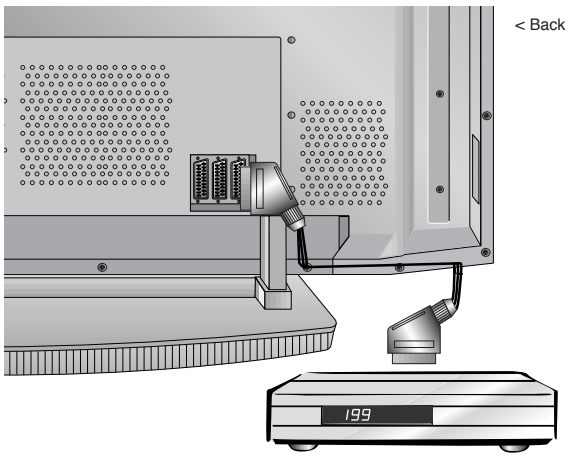
1. Use the **TV/AV** button on the remote control to select AV1, AV2, AV3, AV4 or AV5.
- If both S-VIDEO and VIDEO sockets have been connected to the S-VHS VCR simultaneously, only the S-VIDEO can be received.

2. Insert a video tape into the VCR and press the **PLAY** button on the VCR.
(See VCR owner's manual)



Watching Cable TV

- After subscribing for a local cable TV station and installing a converter you can watch cable TV.
- For further information of cable TV, contact the local cable TV station.



< Back panel of the set >

< Cable box >

To watch cable TV

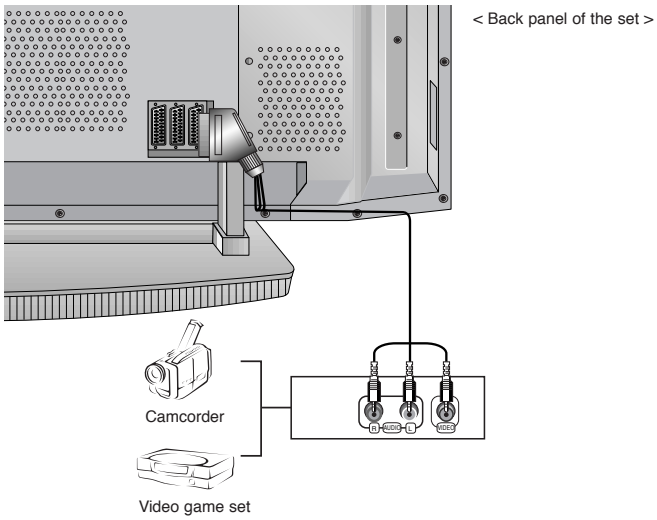
1. Use the **TV/AV** button on the remote control to select AV1, AV2, AV3, AV4 or AV5.
2. Tune to cable service provided channels using the cable box.

Watching external AV source

- When connecting the set to an external source, match the colours of AUDIO/VIDEO input jacks on the set with the output jacks on the audio/video equipment: Video = yellow, Audio (Left) = white, Audio (Right) = red.
  Or, connect the Euro scart socket of the VCR to the Euro scart socket of the set.

How to use

1. Use the **TV/AV** button on the remote control to select AV1, AV2, AV3, AV4 or AV5.
2. Operate the corresponding external equipment. See external equipment operating guide.



< Back panel of the set >

Watching DVD

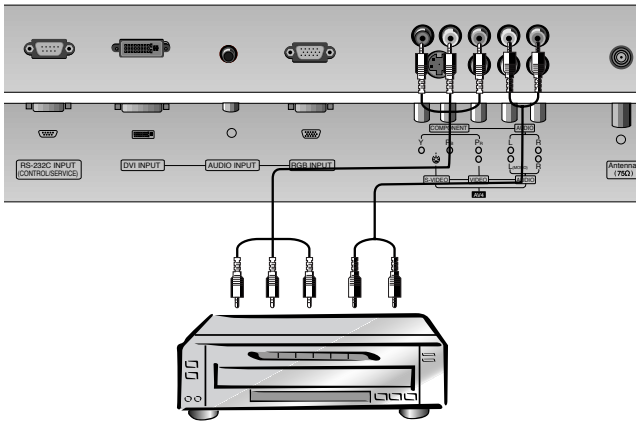
How to connect

Connect DVD video outputs to Y, P_B, P_R of COMPONENT INPUT and audio outputs to Audio sockets of AUDIO INPUT.

How to use

1. Turn on the DVD player, and insert a DVD.
2. Use **TV/AV** or **MULTIMEDIA** button on the remote control to select Component. Refer to the DVD player's manual for operating instructions.

< Back panel of the set >



< DVD player >

- **Component Input ports**
  You can get better picture quality if you connect DVD player with component input ports as below.

Component ports of the set	Y	P_B	P_R
Video output ports of DVD player	Y	Pb	Pr
	Y	B-Y	R-Y
	Y	Cb	Cr
	Y	P_B	P_R

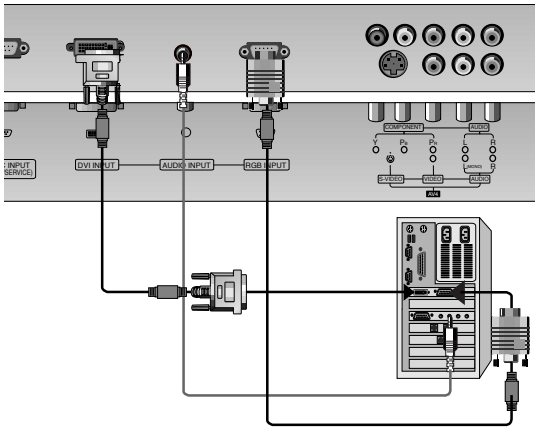
Connecting PC

- To enjoy vivid picture and sound, connect a PC to the set.
- Avoid keeping a fixed image on the set's screen for a long period of time. The fixed image may become permanently imprinted on the screen; use a screen saver when possible.
- Connect PC to the RGB INPUT(PC INPUT) or DVI INPUT(DIGITAL RGB INPUT) port of the set; change the resolution output of PC accordingly.
- There might be a noise according to some resolution, vertical pattern, contrast or brightness in PC mode. Then change the PC mode into other resolution or change the refresh rate into other rate or adjust the brightness and contrast on the menu until the picture is clean. If the refresh rate of the PC graphic card can not be changed, change the PC graphic card or consult it to the manufacturer of the PC graphic card.
- The synchronization input form for Horizontal and Vertical frequencies is separate.

Setup Instructions to Connect a PC to your set

- We recommend using 1024x768, 60Hz for the PC mode, they provide the best picture quality.
- If the resolution of PC is over UXGA, there will be no picture on the set.
- Connect the signal cable from the monitor output port of the PC to the RGB INPUT port of the set or the signal cable from the DVI output port of the PC to the DVI INPUT port on the set.
- Connect the audio cable from the PC to the Audio input on the set. (Audio cables are not included with the set).
- If using a sound card, adjust PC sound as required.
- This set apply a VESA Plug and Play Solution. The set provides EDID data to the PC system with a DDC protocol. The PC adjusts automatically to use this set.
- DDC protocol is preset for RGB (Analog RGB), DVI (Digital RGB) mode.
- If required, adjust the set settings for Plug and Play functionally.
- If graphic card on the PC does not output analog and digital RGB simultaneously, connect only one of both RGB INPUT or DVI INPUT to display the PC on the set.
  If graphic card on the PC does output analog and digital RGB simultaneously, set the set to either RGB or DVI; (the other mode is set to Plug and Play automatically by the set.)
- DOS mode may not work depending on video card if using a DVI-I cable.

< Back panel of the set >



PC Setup

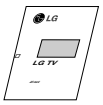
1. Turn on the PC and apply power to the set.
2. Turn on the display by pressing the **POWER** button on the set's remote control.
3. Use the **TV/AV** or **MULTIMEDIA** button on the remote control to select the RGB or DVI input source.
4. Set the resolution output of the PC to SXGA or under (1280 x 1024, 60Hz). (Refer to p. 13)

Displayable Monitor Specification

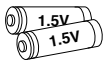
RGB / DVI mode

Resolution	Horizontal Frequency(KHz)	Vertical Frequency(Hz)
640x350	31.468	70.09
	37.861	85.08
720x400	31.469	70.08
	37.927	85.03
640x480	31.469	59.94
	35.000	66.66
	37.861	72.80
	37.500	75.00
	43.269	85.00
848x480	31.500	60.00
	37.799	70.00
	39.375	75.00
852x480	31.500	60.00
	37.799	70.00
	39.375	75.00
800x600	35.156	56.25 (RGB)
	37.879	60.31
	48.077	72.18
	46.875	75.00
	53.674	85.06
832x624	49.725	74.55
1024x768	48.363	60.00
	56.476	70.06
	60.023	75.02
	68.677	85.00
1360x768	47.700	60.00
	59.625	75.02
	68.500	85.00
1366x768	47.700	60.00
	59.625	75.02
	69.500	85.00
1152x864	54.348	60.05
	63.995	70.01
	67.500	75.00
	77.487	85.00
1152x870	68.681	75.06
1280x768	47.693	60.00
	60.091	75.00
	68.504	85.00
1280x960	60.023	60.02
1280x1024	63.981	60.02

Accessories



Owner's Manual



Alkaline batteries

Remote Control handset

Power Cord

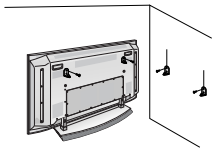
2-TV bracket bolts
(Only RZ-60PY10/11 series
: 6-TV bracket bolts)

2-TV brackets
2-Wall brackets (optional)

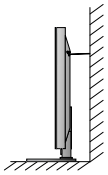
6-RING SPACER
(Only RZ-60PY10/11 series)

Joinning the TV assembly to the wall to protect the set tumbling

- Secure the TV assembly by joinning it to a wall by using the TV/Wall brackets.



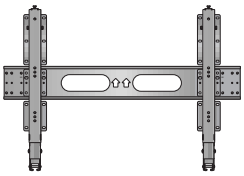
- After the set must be mounted on s desk top, install the TV brackets on the TV as shown.
  Insert the 2 bolts and tighten securely, in the upper holes on the bracket.
  Install the wall brackets on the wall with 4 bolts*, (not supplied with the product), as shown.
  Match the height of the TV brackets and the wall brackets.
  Check to be sure the brackets are tightened securely.



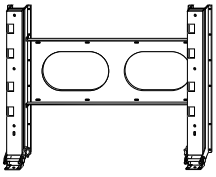
- Secure the TV assembly to the wall with strong strings or wound wire cables, (not supplied with the product), as shown.

Optional Extras

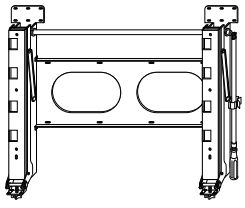
- Optional extras can be changed or modified for quality improvement without any notification new optional extras can be added.
- Contract your dealer for buying these items.



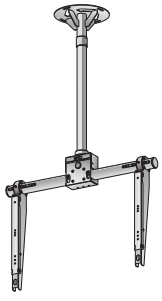
Tilt wall mounting bracket



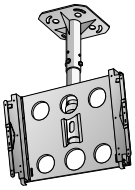
Wall mounting bracket
(Only RZ-60PY10/11 series)



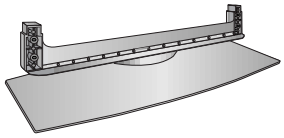
Tilt wall mounting bracket
(Only RZ-60PY10/11 series)



Ceiling mounting bracket

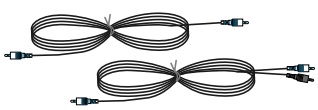


Ceiling mounting bracket



Desktop stand (optional)

Video cables



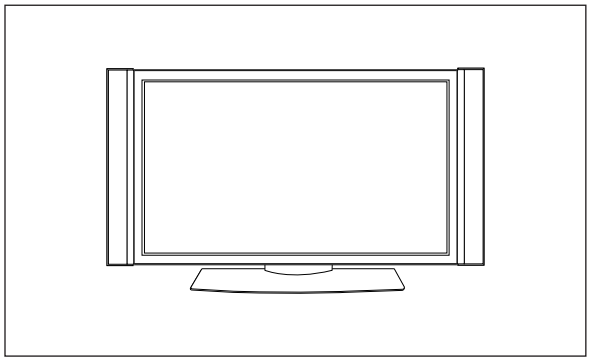
Audio cables

Installation Options

- The set can be installed in different ways such as on a wall, or on a desktop etc.

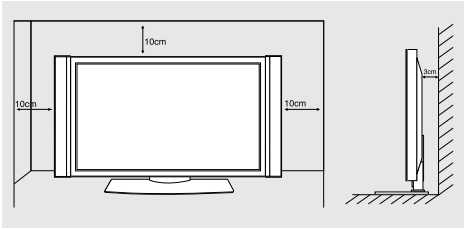
Desktop Pedestal Installation

- The set can be mounted on a desk as shown above. (For further information, refer to the optional 'Desktop Stand Installation and Setup Guide'.)
- Speakers and speaker stands shown are optional, and are shown for example only.



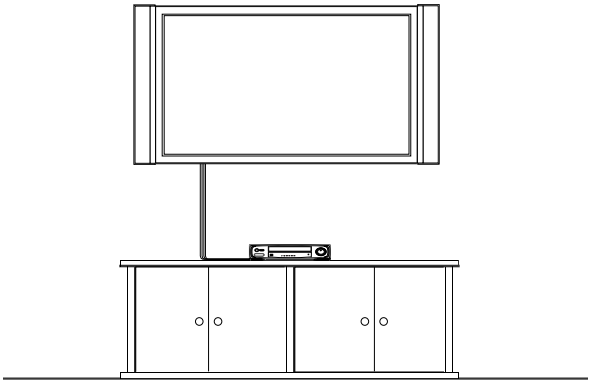
To Install on a Desktop

Pedestal mount minimum allowable clearances for adequate ventilation.



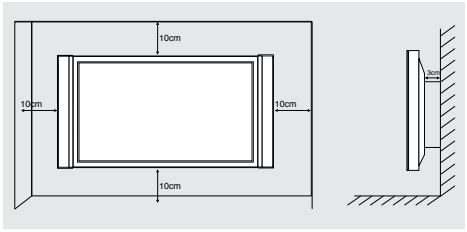
Wall Mount: Horizontal Installation

- The set can be installed on a wall as shown above. (For further information, refer to the optional 'Wall Mounting Bracket Installation and Setup Guide'.)
- Speakers are optional, and are shown for illustration only.



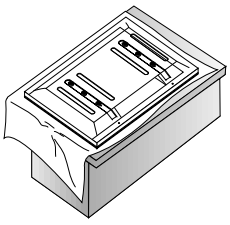
To Mount on a Wall

Wall mount minimum allowable clearances for adequate ventilation.

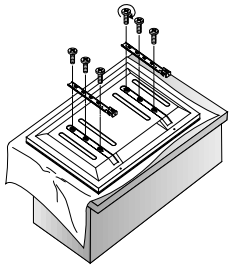


- **Install the RING SPACER with the bolts on the set as shown.** (Only RZ-60PY10/11 series)

1. Put the RING SPACER in the holes of the bolts before connecting to the wall mounting bracket.



2. When you connect the wall mounting bracket to the set, connect to it by using the bolts, (supplied with the product), as shown.



SPECIFICATIONS

NOTE : Specifications and others are subject to change without notice for improvement.

■ Application Range

This spec is applied to the 50”PDP TV used RF-043B Chassis.

■ Specification

Each part is tested as below without special appointment.

1) Temperature : 25¡ 5°C (77¡ 9°F)
2) Relative Humidity: 65¡ 10%
3) Power Voltage: Standard Input voltage (100V-240V~, 50/60Hz)
   * Standard Voltage of each product is marked by models.
4) Specification and performance of each parts are followed each drawing and specification by part number in accordance with BOM.
5) The receiver must be operated for about 20 minutes prior to the adjustment.

■ Test and Inspection Method

1) Performance : LGE TV test method followed.
2) Demanded other specification
   Safety: CE, IEC specification
   EMC : CE, IEC

Model Name	Market	Remark
RZ-50PY10	EU	Safety : IEC/EN60065 EMI : EN55013 EMS : EN55020

■ General Specification

1. General Specification

No	Item	Specification	Remark
1	Display Screen Device	50 inch wide Color Display Module	PDP
2	Aspect Ratio	16:9	
3	PDP Module	PDP50X2xxxx, RGB Closed Type	
4	Screen Filter	45% Total light transmittance (E- Mesh)	Maker : NBK / Mitsui / LG Chemical
5	Operating Environment	1) Temp : 0~40 deg 2) Humidity : 0~85%	LGE SPEC
6	Storage Environment	1) Temp : -20~60 deg 2) Humidity : 0~85%	
7	Input Voltage	100 - 240V~, 50/60Hz	Maker : SONY / Sanken

2. Model Specification

No	Item	Specification	Remark
8	Market	EU	
9	Broadcasting	PAL B/G/I/D/K, SECAM L/L'	
10	Receiving system	Upper Heterodyne	
11	Scart Jack (3EA)	PAL, SECAM	
12	Video Input (2EA)	PAL, SECAM, NTSC	4 System : PAL B/G/I/D/K, SECAM L, NTSC4.43,PAL60
13	S-Video Input(2EA)	PAL, SECAM, NTSC	4 System : PAL B/G/I/D/K, SECAM L, NTSC4.43,PAL60
14	Component Input(1EA)	Y/Cb/Cr, Y/Pb/Pr	
15	RGB Input(1EA)	RGB-PC	
16	DVI Input(1EA)	DVI-PC	DVI-D
17	Audio Input(4EA)	PC Audio, Component, AV(2EA)	L/R Input
18	Wired Control	Discrete IR	

ADJUSTMENT INSTRUCTIONS

1. Application Object

These instructions apply to the RF-043B Chassis.

2. Specification

(1) Because this is not a hot chassis, it is not necessary to use an isolation transformer. However, the use of isolation transformer will help protect test instrument.
(2) Adjustment must be done in the correct order.
(3) The adjustment must be performed in the circumstance of 25±5°C of temperature and 65±10% of relative humidity if there is no specific designation.
(4) The input voltage of the receiver must keep 100~220V, 50/60Hz.
(5) The receiver must be operated for about 15 minutes prior to the adjustment.

● After RGB Full white HEAT-RUN Mode, the receiver must be operated prior to adjustment.
● Enter into HEAT-RUN MODE
1) Press the POWER ON KEY on R/C for adjustment.
2) OSD display and screen display 100% full WHITE PATTERN.

※ Set is activated HEAT-RUN without signal generator in this mode.
※ Single color pattern(RED/BLUE/GREEN) of HEAT-RUN mode uses to check PANEL.

Caution) If you turn on a still screen more than 20 minutes (Especially digital pattern, cross hatch pattern), a afte image may be occur in the black level part of the screen.

3. Channel memory

3-1. Setting up the LGIDS

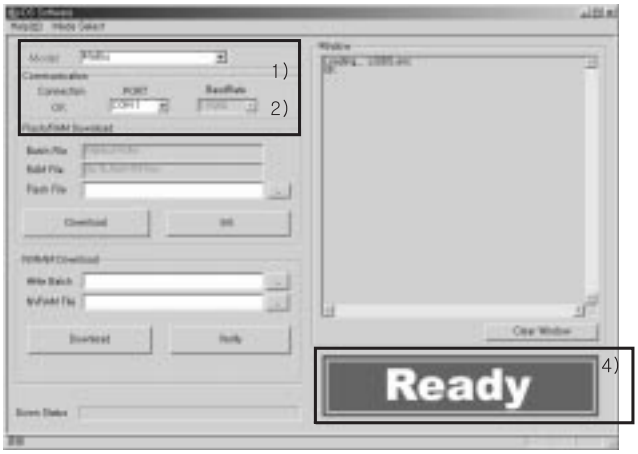
(1) Install the LGIDS. (idsinst.exe)
After installation is completed, check if the file shown on (Fig. 1) has been created.
After using the right mouse button to click on 'LGIDS',
(2) select 'Create Shortcut' from the menu with the left mouse button and move the shortcut icon onto the desktop.
(3) Double-click on the 'LGIDS' icon on the desktop to execute the program.

(Fig. 1)

3-2. Channel memory Method

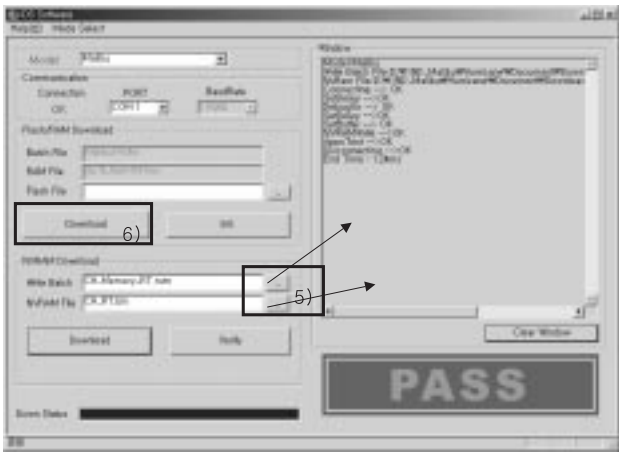
(1) Check if 'Malibu' has been selected on 'Model'.
(2) Check if 'Connection' under 'Communication' is 'OK'.
(3) If it is 'NG' , look on 'PORT'(COM1,2,3...) and make sure that it's on the right port.
(4) After connecting RS-232C cable, turn on the power.
If it the communication has been done correctly, 'READY' is displayed at the lower right corner of the window shown as (Fig. 2).

※ When the TV SET is not assembled completely and only the PCB is supplied by Stand-by 5V, download at the Stand-by state (LED is Red).



(Fig. 2)

(5) Select proper CH_memory file(*.nvm) for each model at [NVRAM Download] ⟶ [Write Batch]
Next, select proper binary file(*.bin) including the CH information for each model at [NVRAM File].
(6) Click the [Download] button.
It means the completion of the CH memory download if all items show 'OK' and Status is changed by 'PASS' at the lower right corner of the window.
(7) If you want to check whether the CH information is memorized correctly or not, click the [Verify] button.
And then compare NVRAM File(*.bin) with the CH information downloaded.

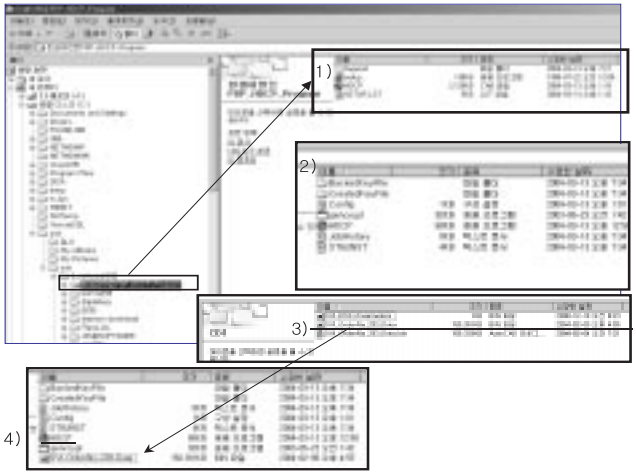


(Fig. 3)

4. HDCP Download

4-1. LGIDS Setting Method

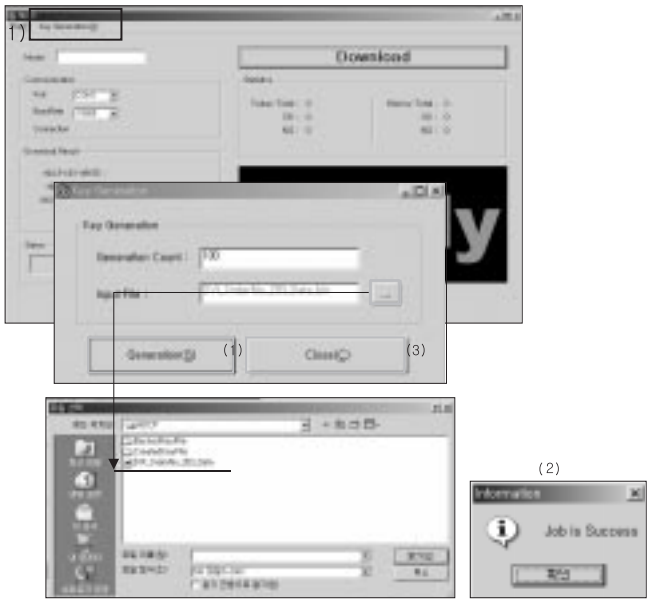
(1) Click on 'setup' to install in your directory.
(2) After installation is completed, check if the file shown on (Fig. 4) has been created.
(3) Copy the KEY from source CD into the HDCP directory which was installed just now.
(DVI_orderNo_2003_data)



(Fig. 4)

(4) After running HDCP(application program) which is inside the HDCP directory, setup the Communication.
Port : COM1(modification possible)
BaudRate : 115200

4-2. KEY Generation

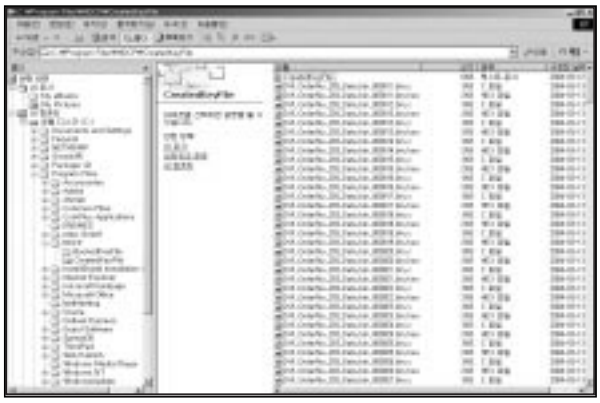


(Fig. 5)

(1) Click on 'Key Generation (G)'.
(2) Input the number of the key in Generation count.
ex) If 100 Keys are required, then just register 100 and next time it will automatically get 101.

(3) Input file : When installing the program for the first time, you must find the original KEY that you copied and open it. It is crucial that you copy the original KEY into this directory.
When you use Generation, the information is recorded in Config.ini.
(4) Click on 'Generation' ————————————————(1)
If it is done correctly, you will see "Job is Success."——(2)
Click on 'close'————————————————————(3)

(5) Check the Generation Data(Confirmation it's possible within HDCP\CreatedKeyFile)



(Fig. 6)

(6) It is possible to check how many Generations are created at this point.
(Fig. 7) shows that you have created 130 Generations and you will start from 131 next time.

(Fig. 7)

4-3. HDCP Download Method

(1) Input power of Stand-By 5V.
(Download must be executed only when it is on Stand-by)
(2) The RS-232C(9PIN) must be connected to the COM1 on the PC.

(Fig. 8)

(3) If all the preparation is completed, click on 'Download'.

(Fig. 9) Normal State

(Fig. 10) Abnormal State

(4) If abnormal state (Fig. 10) display then (3) execute.

Each PCB assembly must be checked by check JIG set.
(Because power PCB Assembly damages to PDP Module, especially be careful)

5. POWER PCB Assy Voltage Adjustments (Va, Vs Voltage Adjustments)

5-1. Test Equipment : D.M.M. 1EA

5-2. Connection Diagram for Measuring

Refer to (Fig 11).

5-3. Adjustment Method for P/No. 3501V00180A B/D

(1) Va Adjustment

1) After receiving 100% Full White Pattern, HEAT RUN.
2) Connect + terminal of D.M.M to Va pin of P805, connect - terminal to GND pin of P805.
3) After turning RV501, voltage of D.M.M adjustment as same as Va voltage which on lable of panel right/top (Deviation; ±0.5V)

(2) Vs Adjustment

1) Connect + terminal of D.M.M to Vs pin of P805, connect – terminal to GND pin of P805.
2) After turning RV401, voltage of D.M.M adjustment as same as Va voltage which on label of panel right/top. (Deviation; ±0.5V)

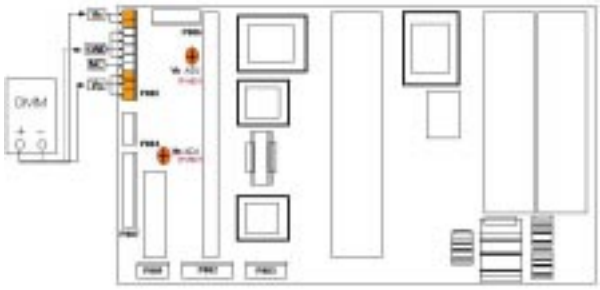
5-4. Adjustment Method for P/No. 3501V00182A B/D

(1) Va Adjustment

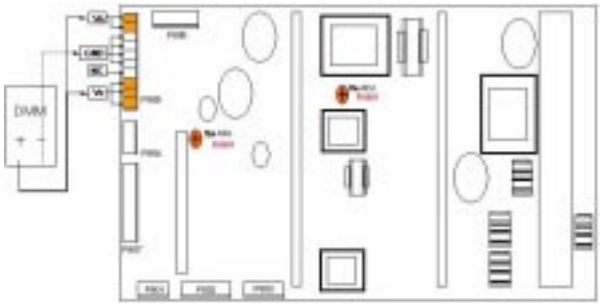
1) After receiving 100% Full White Pattern, HEAT RUN.
2) Connect + terminal of D.M.M to Va pin of P805, connect - terminal to GND pin of P805.
3) After turning RV601, voltage of D.M.M adjustment as same as Va voltage which on lable of panel right/top (Deviation; ±0.5V)

(2) Vs Adjustment

1) Connect + terminal of D.M.M to Vs pin of P805, connect – terminal to GND pin of P805.
2) After turning RV401, voltage of D.M.M adjustment as same as Va voltage which on label of panel right/top. (Deviation; ±0.5V)



< 3501V00180A >



< 3501V00182A >

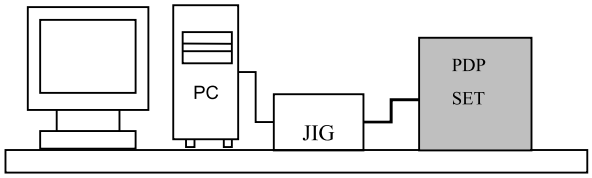
(Fig. 11) Connection Diagram of Power Adjustment for Measuring

6. DDC Data Input

6-1. Required Test Equipment

(1) A jig for adjusting PC, DDC (PC serial to D-sub Connection equipment)
(2) S/W for writing DDC (EDID Data Write & Read)
(3) D-sub 15P Cable, D-Sub to DVI Connector (Connect to DVI Jack)

6-2. Setting of Device



6-3. Preparation for Adjustment

(1) Set devices as above and turn the PC, jig on.
(2) Put S/W for writing DDC (EDID data Write & Read) into operation. (operated in DOS mode.)

6-4. Sequence of Adjustment

(1) DDC Data Input for Analog-RGB

1) Put the set on the table and turn the power on.
2) Connect PC Serial to D-sub 15P Cable of jig for DDC adjustment to RGB terminal (D-Sub 15Pin).
3) Operate S/W for DDC record and select DDC data for Analog RGB in Model Menu.
4) Operate EDID Write command.
5) Operate EDID Read command and check whether Check Sum is 53.
6) If Check Sum is not 53, repeat 3) ~ 4).
7) If Check Sum is 53, DDC data for Analog-RGB input is completed.

(2) DDC Data input for Digital-RGB(DVI)

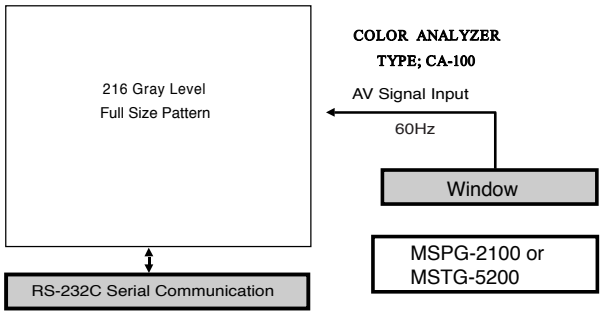
1) Connect PC Serial to DVI Cable of jig for DDC adjustment to DVI terminal (DVI Jack).
2) Operate S/W for DDC record and select DDC data for digital RGB in model menu.
3) Operate EDID Write command.
4) Operate EDID Read command and check whether Check sum is D2(1page), BF(2page).
5) If Check sum is not D2(1page), BF(2page), repeat 3) ~ 4).
6) If Check sum is D2(1page), BF(2page), DDC data for Analog-RGB input is completed.

7. Adjustment of White Balance

7-1. Required Equipment

Color Analyzer (CA-100 or same product)

7-2. Connection Diagram of Equipment for Measuring



(Fig. 12) White Balance Adjustment

7-3. Adjustment of White Balance

- Operate the Zero-calibration of the CA-100, then stick sensor to PDP module surface when you adjust.
- For manual adjustment, it is also possible by the following sequence.

(1) Select white pattern of heat-run mode by pressing power on key on remote control for adjustment then operate heat run more than 15 minutes.
(2) Supply Gray Pattern (216 Level Full Size Pattern: Signal level=0.59V±0.03V) signal to VIDEO input. (AV2 Input 60Hz) (Refer to Fig. 12)
(3) Press the FRONT-AV KEY on R/C for converting input mode.
(4) To adjust, stick sensor to 216 Gray Level Pattern, press ADJ key twice(White Balance) on remote control.
For adjustment and ▲, ▼ on remote control for adjustment mode to select Red Gain and Green Gain, press VOL +, - Key and adjust it until color coordination becomes as below.
※ 216 Gray level=Signal level 0.59V±0.03V

X; 0.283±0.003, Y; 0.297±0.003
Color Temperature; 9,300°K±500°K

(5) Exit adjustment mode using ■ Key.

8. Auto Component Color Balance

8-1. Required Test Equipment

Pattern Equipment: MSP3240A or same product
(16 Gray Scale Pattern output(Component output Level: 0.7Vp-p)

8-2. Method of Auto RGB Color Balance

(1) Input RGB Source : Component 480p/576p 16 Gray Scale Pattern
At this time, except Pb and Pr signal, only Y signal insert.
(2) Press ADJ KEY on R/C for adjustment.
(3) Press Vol. + KEY and operate To set.
(4) Auto-RGB OK means completed adjustment.

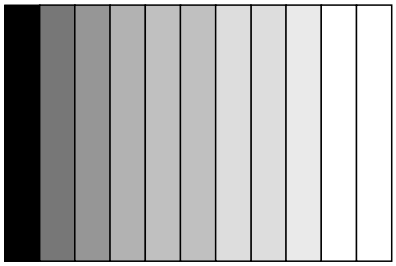
9. Auto RGB Color Balance

9-1. Required Test Equipment

Pattern Equipment: PC Pattern Generator (VG828, VG854, 801GF, MSP3240A)
(16 Gray Scale Pattern output(RGB output Level: 0.7Vp-p)

9-2. Method of Auto RGB Color Balance

(1) Input RGB Source : 16 Gray Scale Pattern output (RGB output Level : 0.7Vp-p)
(2) Press ADJ KEY on R/C for adjustment.
(3) Press Vol. + KEY and operate To SET.
(4) Auto-RGB OK means completed adjustment.



(Fig. 13) Auto RGB/ Component Color Balance Test Pattern

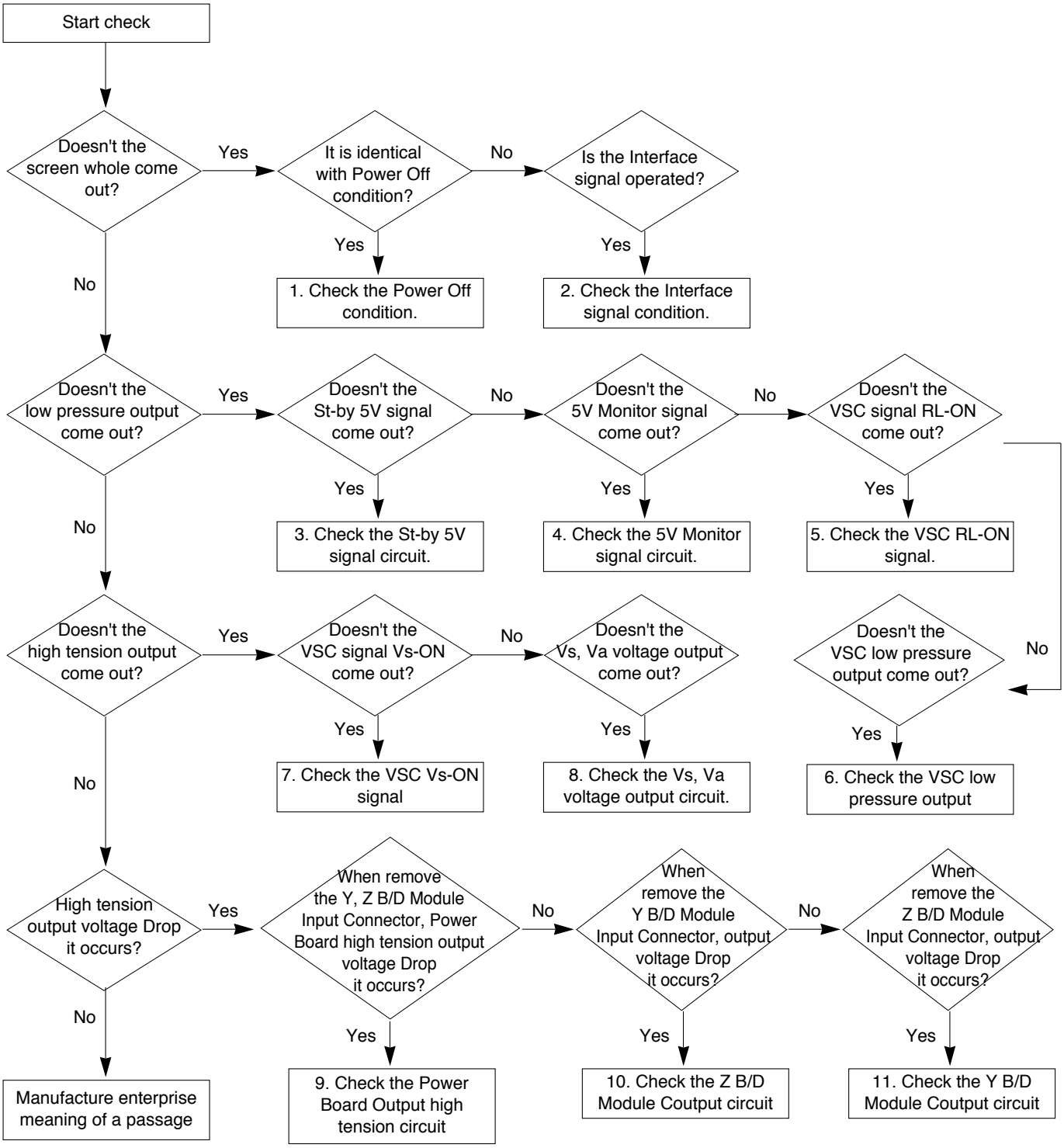
10. Auto Adjustment Map(RS-232C)

RF-043A						
Type		RS232				
Baud Rate		Data bit		Stop bit	Parity	
115200		8		1	NONE	
Protocol Setting	Index	Cmd1	Cmd2	Data	Min Value	Max Value
	R Gain	j	a		00(00)	255(FF)
	G Gain	j	b		00(00)	255(FF)
	B Gain	j	c		00(00)	255(FF)
	R Offset	j	d		00(00)	255(FF)
	G Offset	j	e		00(00)	255(FF)
	B Offset	j	f		00(00)	255(FF)

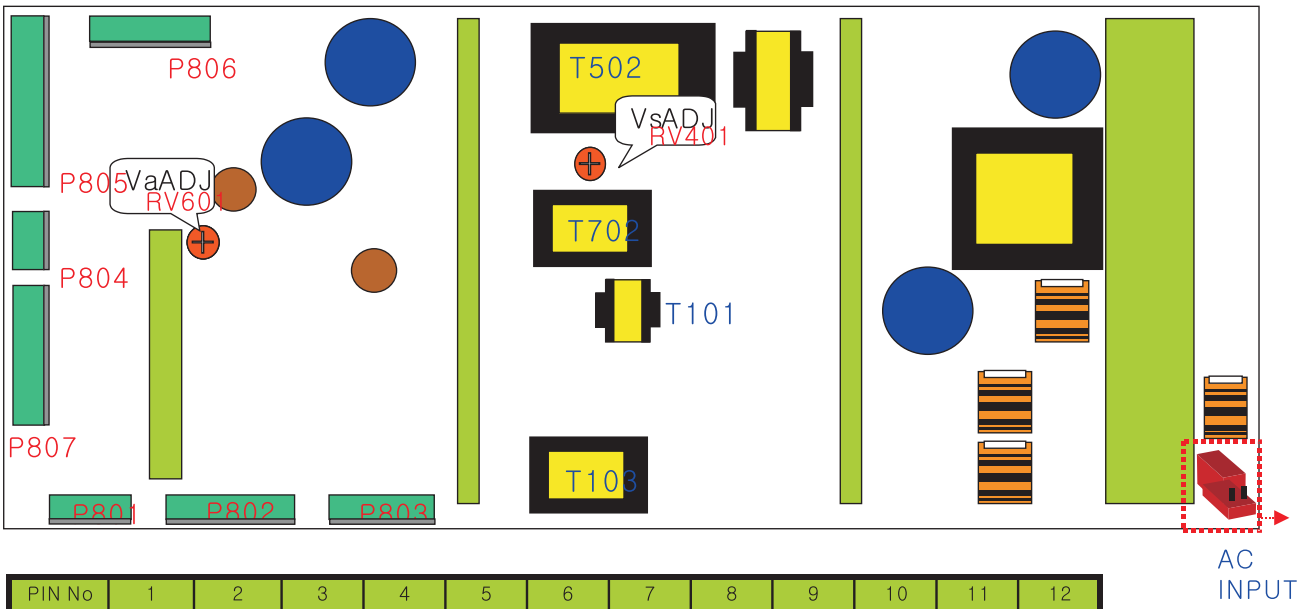
TROUBLE SHOOTING GUIDE

1. Power Board

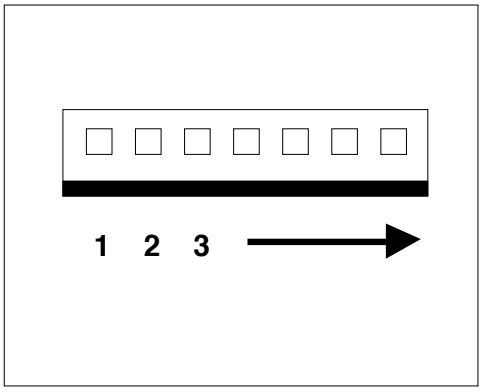
1-1. The whole flowchart which it follows in voltage output state


Start check
Doesn't the screen whole come out?
Yes
It is identical with Power Off condition?
No
Is the Interface signal operated?
Yes
1. Check the Power Off condition.
Yes
2. Check the Interface signal condition.
No
Doesn't the low pressure output come out?
Yes
Doesn't the St-by 5V signal come out?
No
Doesn't the 5V Monitor signal come out?
No
Doesn't the VSC signal RL-ON come out?
Yes
3. Check the St-by 5V signal circuit.
Yes
4. Check the 5V Monitor signal circuit.
Yes
5. Check the VSC RL-ON signal.
No
Doesn't the high tension output come out?
Yes
Doesn't the VSC signal Vs-ON come out?
No
Doesn't the Vs, Va voltage output come out?
Doesn't the VSC low pressure output come out?
No
Yes
7. Check the VSC Vs-ON signal
Yes
8. Check the Vs, Va voltage output circuit.
Yes
6. Check the VSC low pressure output
No
High tension output voltage Drop it occurs?
Yes
When remove the Y, Z B/D Module Input Connector, Power Board high tension output voltage Drop it occurs?
No
When remove the Y B/D Module Input Connector, output voltage Drop it occurs?
No
When remove the Z B/D Module Input Connector, output voltage Drop it occurs?
No
Manufacture enterprise meaning of a passage
Yes
9. Check the Power Board Output high tension circuit
Yes
10. Check the Z B/D Module Coutput circuit
Yes
11. Check the Y B/D Module Coutput circuit

1-2. Sony Power Board Structure



PIN No	1	2	3	4	5	6	7	8	9	10	11	12
P801	POD	5V-MNT	VS-ON	GND	STBY5V	RL-ON	A-ON					
P802	GND	GND	12V	12V	GND	GND	6V	6V	GND	GND	3.4V	3.4V
P803	GND	12V	GND	3.4V	GND	6V	GND	GND	25V	25V		
P804	GND	GND	5V	5V								
P805	Vs	Vs	Vs	NC	GND	GND	GND	GND	Va	Va		
P806	5V	GND	Va	GND	GND	NC	Vs	Vs				
P807	5V	5V	5V	5V	GND	GND	GND	GND				



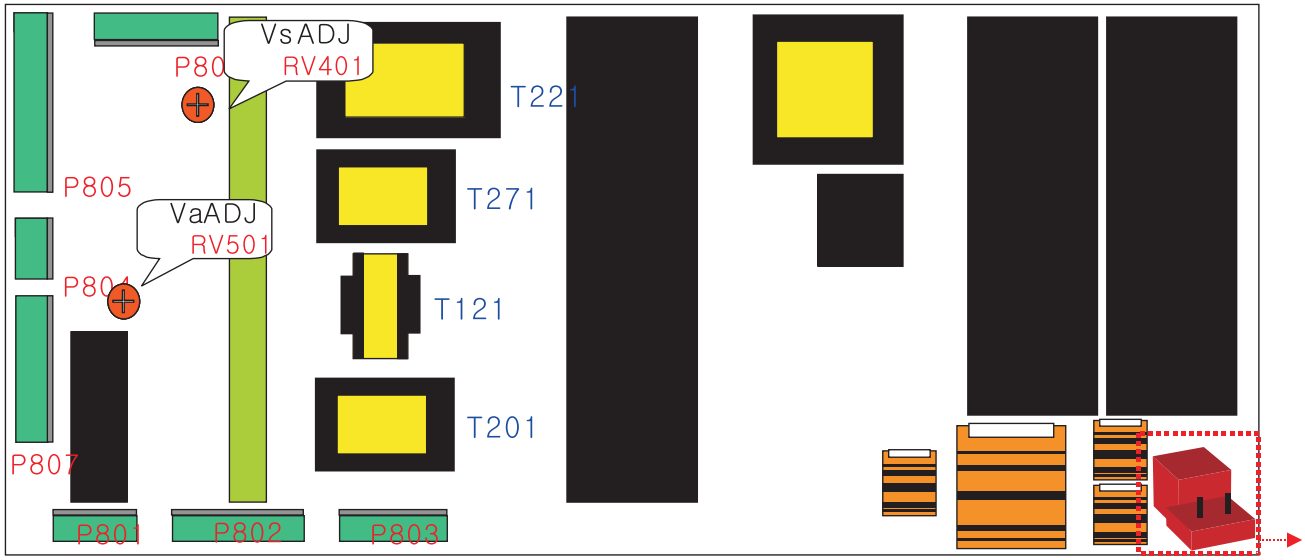
T502: Vs Trans

T702: Va Trans

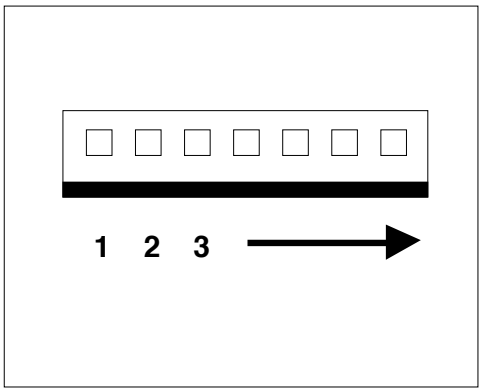
T101: St-by Trans

T103: Low Voltage Trans

1-3. Sanken Power Board Structure



PIN No	1	2	3	4	5	6	7	8	9	10	11	12
P801	POD	5V-MNT	VS-ON	GND	STBY5V	RL-ON	A-ON					
P802	GND	GND	12V	12V	GND	GND	6V	6V	GND	GND	3.4V	3.4V
P803	GND	12V	GND	3.4V	GND	6V	GND	GND	19V	19V		
P804	GND	GND	5V	5V								
P805	Vs	Vs	Vs	NC	GND	GND	GND	GND	Va	Va		
P806	5V	GND	Va	GND	GND	NC	Vs	Vs				
P807	5V	5V	5V	5V	GND	GND	GND	GND				



T221: Vs Trans

T271: Va Trans

T121: St-by Trans

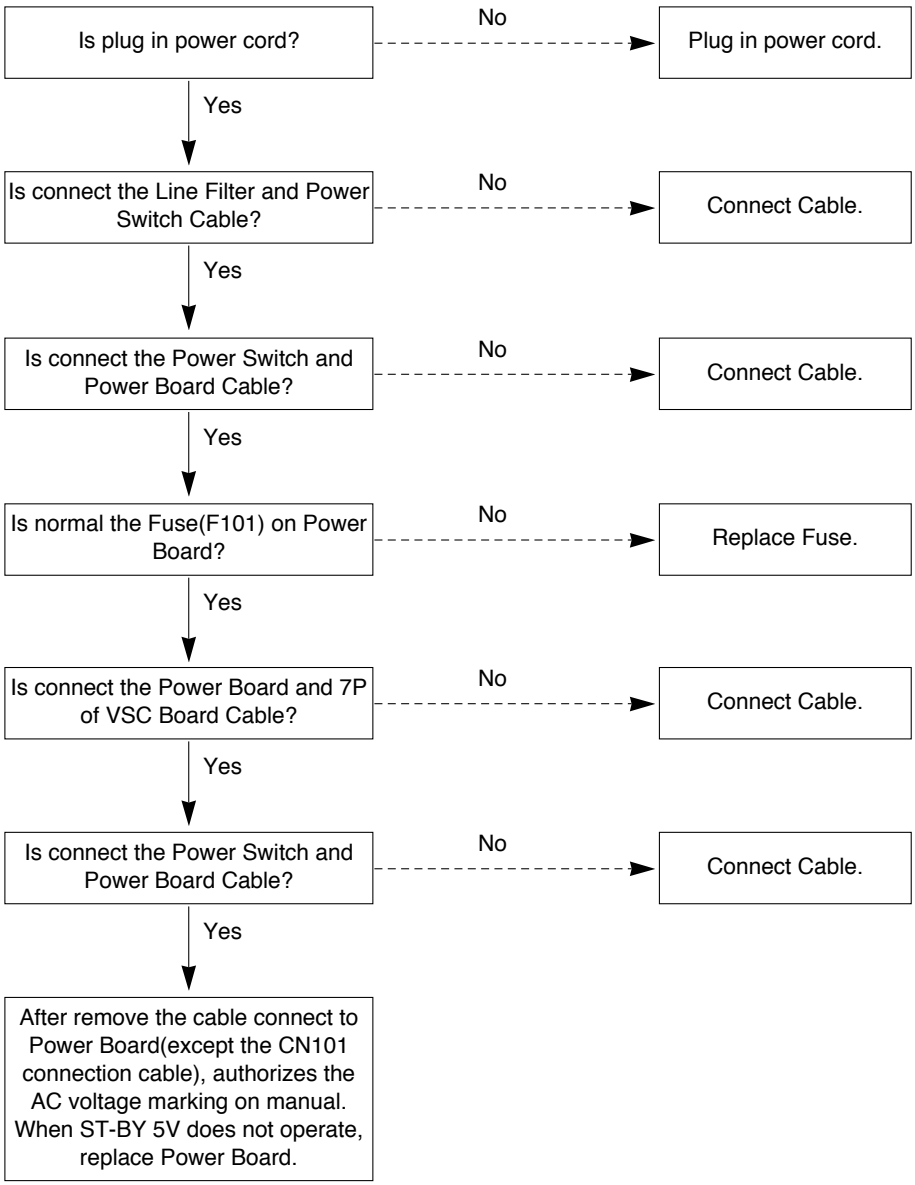
T201: Low Voltage Trans

2. No Power

(1) Symptom

- Does't minute discharge at module.
- Non does not come in into the front LED.

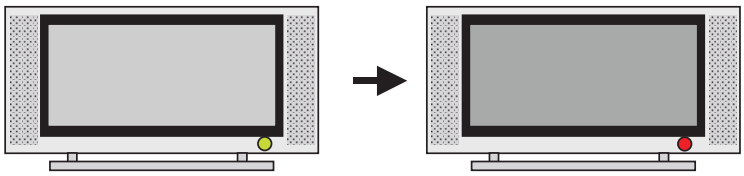
(2) Check follow


Is plug in power cord?
No
Plug in power cord.
Yes
Is connect the Line Filter and Power Switch Cable?
No
Connect Cable.
Yes
Is connect the Power Switch and Power Board Cable?
No
Connect Cable.
Yes
Is normal the Fuse(F101) on Power Board?
No
Replace Fuse.
Yes
Is connect the Power Board and 7P of VSC Board Cable?
No
Connect Cable.
Yes
Is connect the Power Switch and Power Board Cable?
No
Connect Cable.
Yes
After remove the cable connect to Power Board(except the CN101 connection cable), authorizes the AC voltage marking on manual. When ST-BY 5V does not operate, replace Power Board.

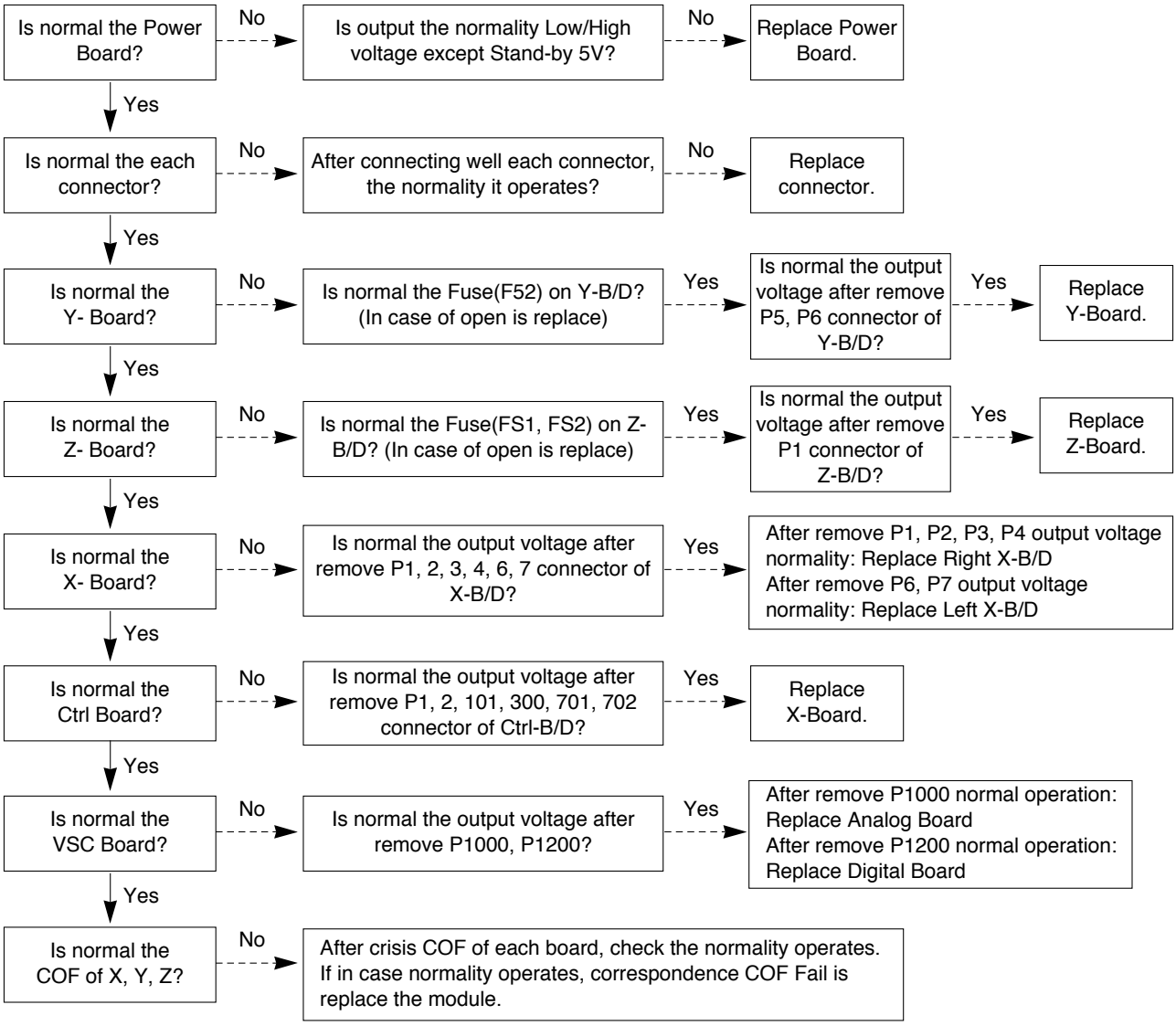
3. Protect Mode

(1) Symptom

- After once shining, it does not discharge minutely from module
- The Rely falls(The sound is audible “click”)
- It is converted with the color where the front LED is red from green.



(2) Check follow

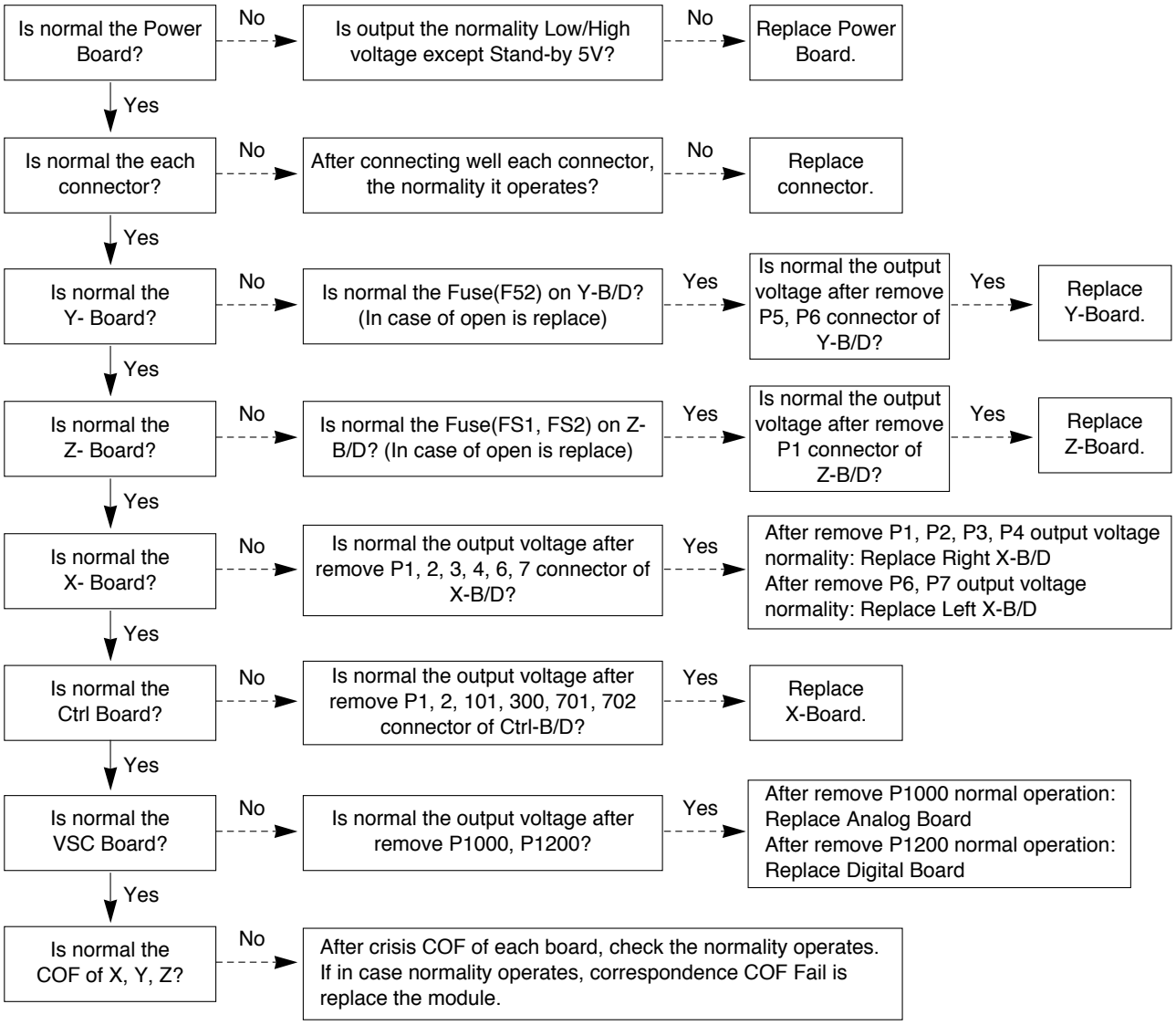

Is normal the Power Board?
No
Is output the normality Low/High voltage except Stand-by 5V?
No
Replace Power Board.
Yes
Is normal the each connector?
No
After connecting well each connector, the normality it operates?
No
Replace connector.
Yes
Is normal the Y- Board?
No
Is normal the Fuse(F52) on Y-B/D? (In case of open is replace)
Yes
Is normal the output voltage after remove P5, P6 connector of Y-B/D?
Yes
Replace Y-Board.
Yes
Is normal the Z- Board?
No
Is normal the Fuse(FS1, FS2) on Z-B/D? (In case of open is replace)
Yes
Is normal the output voltage after remove P1 connector of Z-B/D?
Yes
Replace Z-Board.
Yes
Is normal the X- Board?
No
Is normal the output voltage after remove P1, 2, 3, 4, 6, 7 connector of X-B/D?
Yes
After remove P1, P2, P3, P4 output voltage normality: Replace Right X-B/D
After remove P6, P7 output voltage normality: Replace Left X-B/D
Yes
Is normal the Ctrl Board?
No
Is normal the output voltage after remove P1, 2, 101, 300, 701, 702 connector of Ctrl-B/D?
Yes
Replace X-Board.
Yes
Is normal the VSC Board?
No
Is normal the output voltage after remove P1000, P1200?
Yes
After remove P1000 normal operation: Replace Analog Board
After remove P1200 normal operation: Replace Digital Board
Yes
Is normal the COF of X, Y, Z?
No
After crisis COF of each board, check the normality operates. If in case normality operates, correspondence COF Fail is replace the module.

4. No Raster

(1) Symptom

- Does't minute discharge at module.
- It maintains the condition where the front LED is green.

(2) Check follow

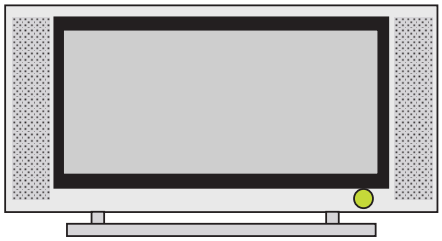

Is normal the Power Board?
No
Is output the normality Low/High voltage except Stand-by 5V?
No
Replace Power Board.
Yes
Is normal the each connector?
No
After connecting well each connector, the normality it operates?
No
Replace connector.
Yes
Is normal the Y- Board?
No
Is normal the Fuse(F52) on Y-B/D? (In case of open is replace)
Yes
Is normal the output voltage after remove P5, P6 connector of Y-B/D?
Yes
Replace Y-Board.
Yes
Is normal the Z- Board?
No
Is normal the Fuse(FS1, FS2) on Z-B/D? (In case of open is replace)
Yes
Is normal the output voltage after remove P1 connector of Z-B/D?
Yes
Replace Z-Board.
Yes
Is normal the X- Board?
No
Is normal the output voltage after remove P1, 2, 3, 4, 6, 7 connector of X-B/D?
Yes
After remove P1, P2, P3, P4 output voltage normality: Replace Right X-B/D
After remove P6, P7 output voltage normality: Replace Left X-B/D
Yes
Is normal the Ctrl Board?
No
Is normal the output voltage after remove P1, 2, 101, 300, 701, 702 connector of Ctrl-B/D?
Yes
Replace X-Board.
Yes
Is normal the VSC Board?
No
Is normal the output voltage after remove P1000, P1200?
Yes
After remove P1000 normal operation: Replace Analog Board
After remove P1200 normal operation: Replace Digital Board
Yes
Is normal the COF of X, Y, Z?
No
After crisis COF of each board, check the normality operates. If in case normality operates, correspondence COF Fail is replace the module.

5. In case of occur strange screen into specific mode

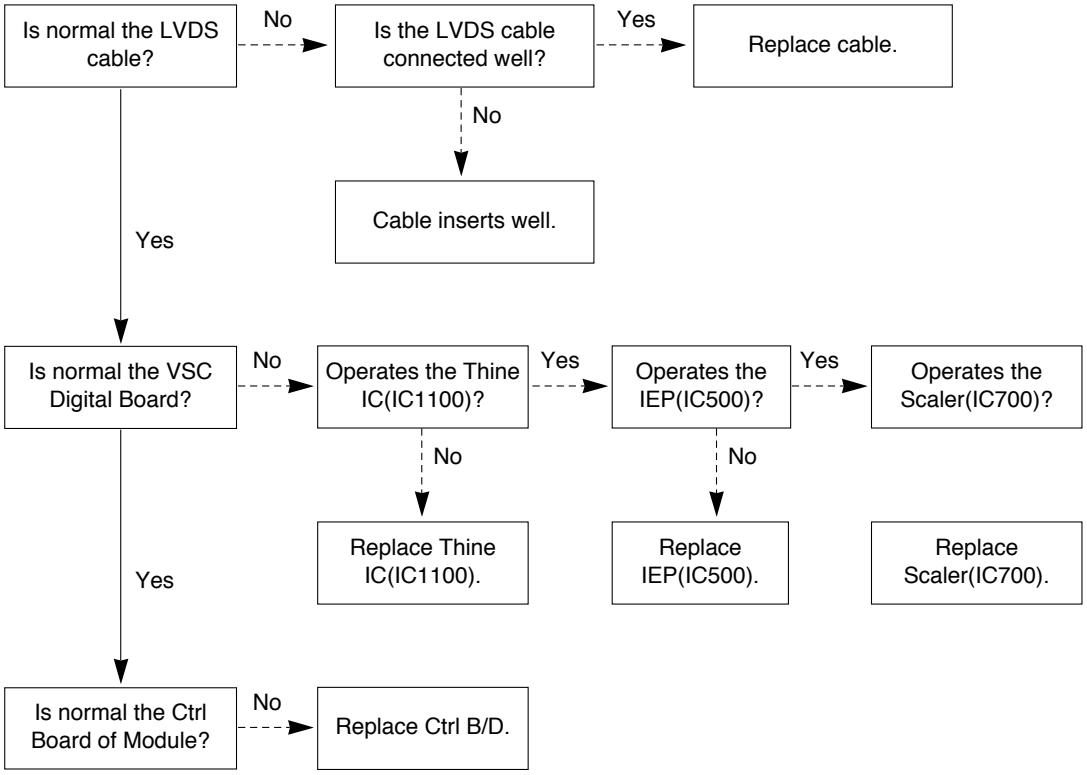
5-1. In case of does't display the OSD

(1) Symptom

- LED is green
- The minute discharge continuously becomes accomplished from module



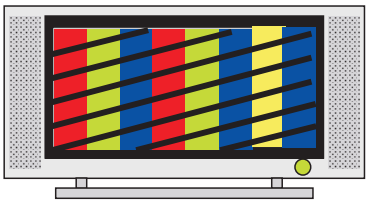
(2) Check follow



5-2. In case of does't display the screen into specific mode

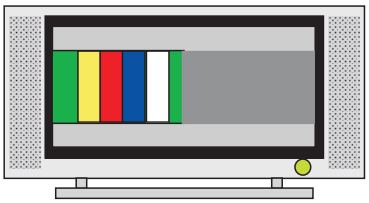
(1) Symptom

- The screen does not become the display from specific input mode (RF, AV, Component, RGB, DVI).

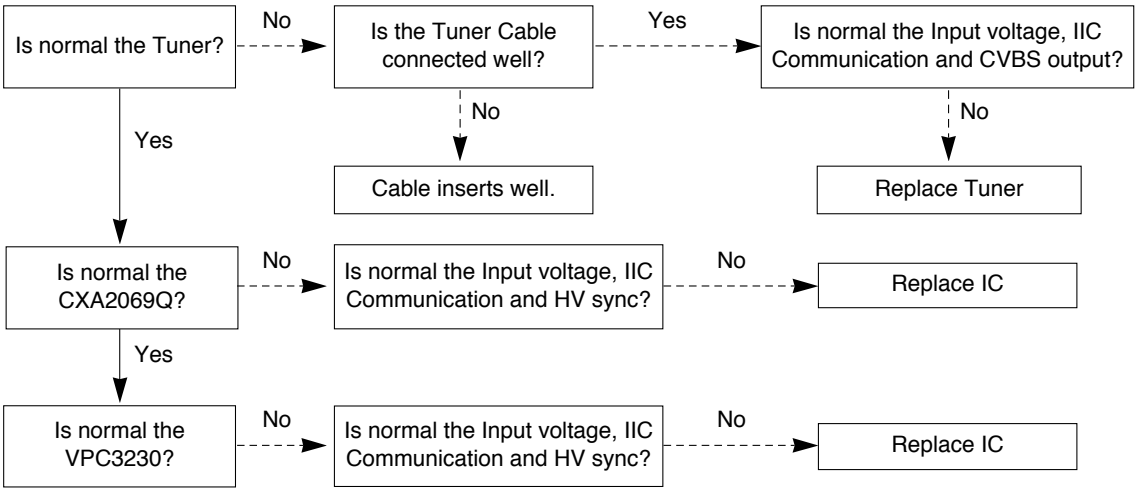


(2) Check follow

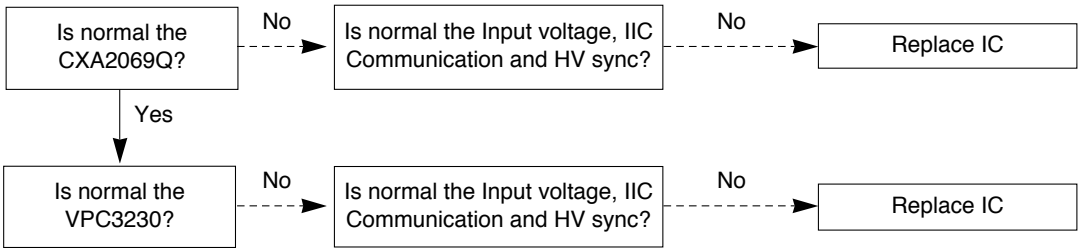
- Check the all input mode should become normality display.
- Check the Video(Main)/Data(Sub), Video(Main)/Video(Sub) should become normality display from the PIP mode or DW mode. (Re-Check it Swap)



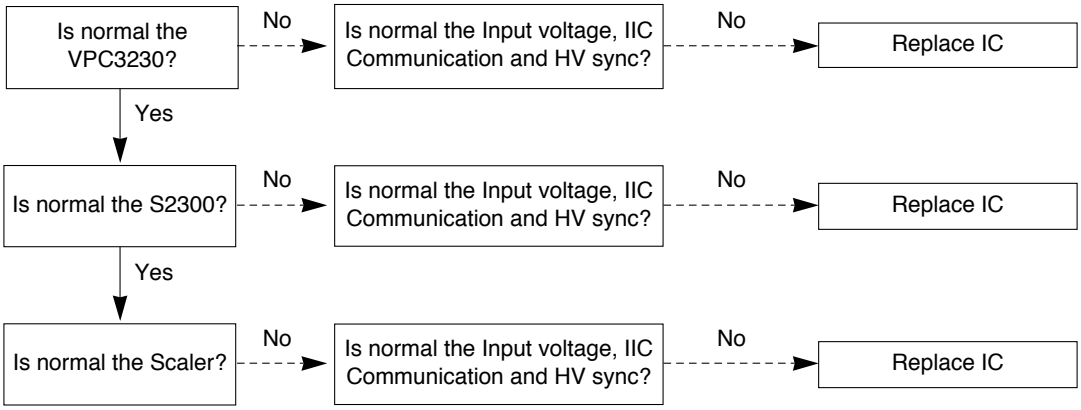
(3) In case of becomes unusual display from RF mode



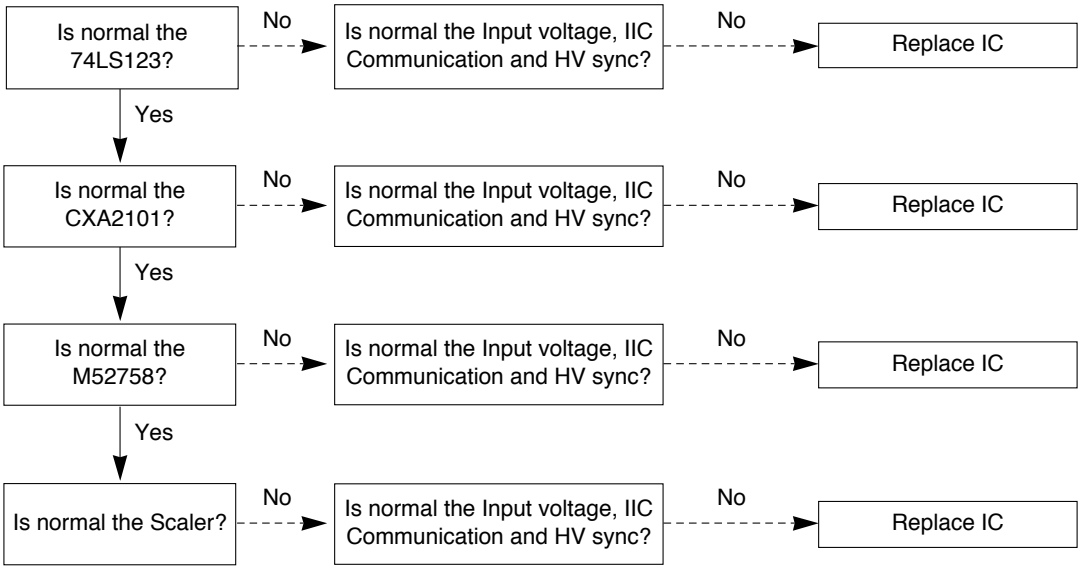
(4) In the case of becomes unusual display from RF, AV mode



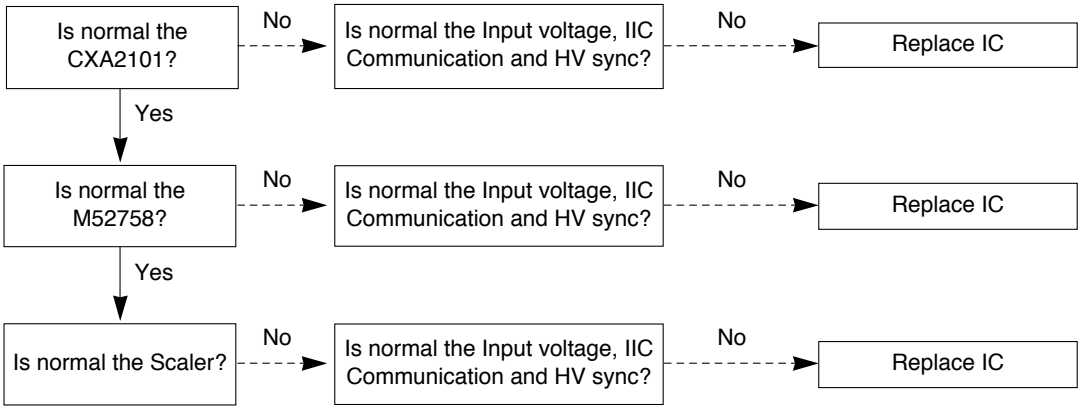
(5) In the case of becomes unusual display from RF, AV, Component 480i mode



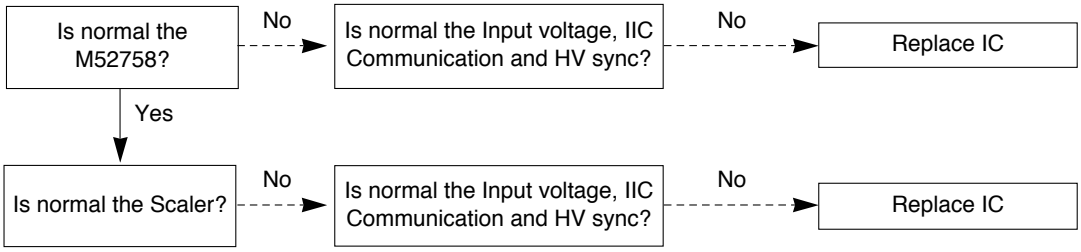
(6) In the case of becomes unusual display from Component DTV mode



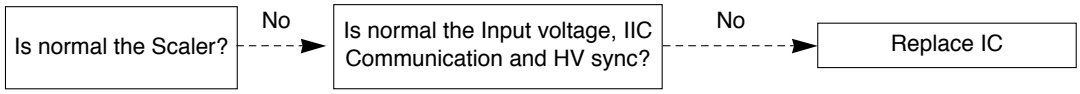
(7) In the case of becomes unusual display from RGB DTV mode



(8) In the case of becomes unusual display from RGB PC mode



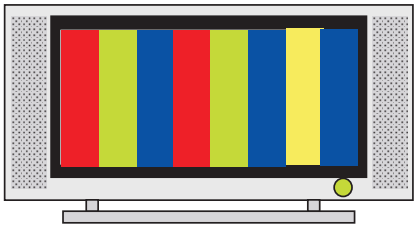
(8) In the case of becomes unusual display from DVI mode



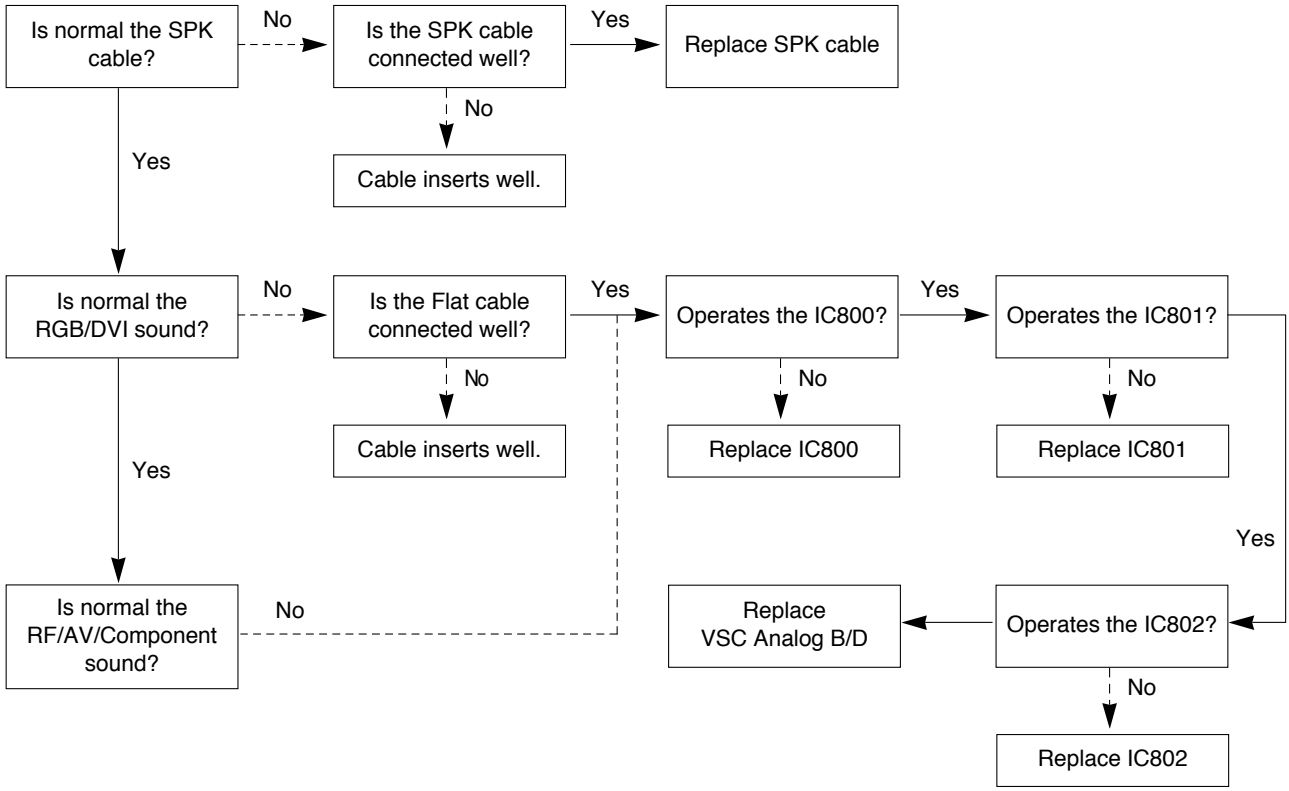
6. In case of no sound

(1) Symptom

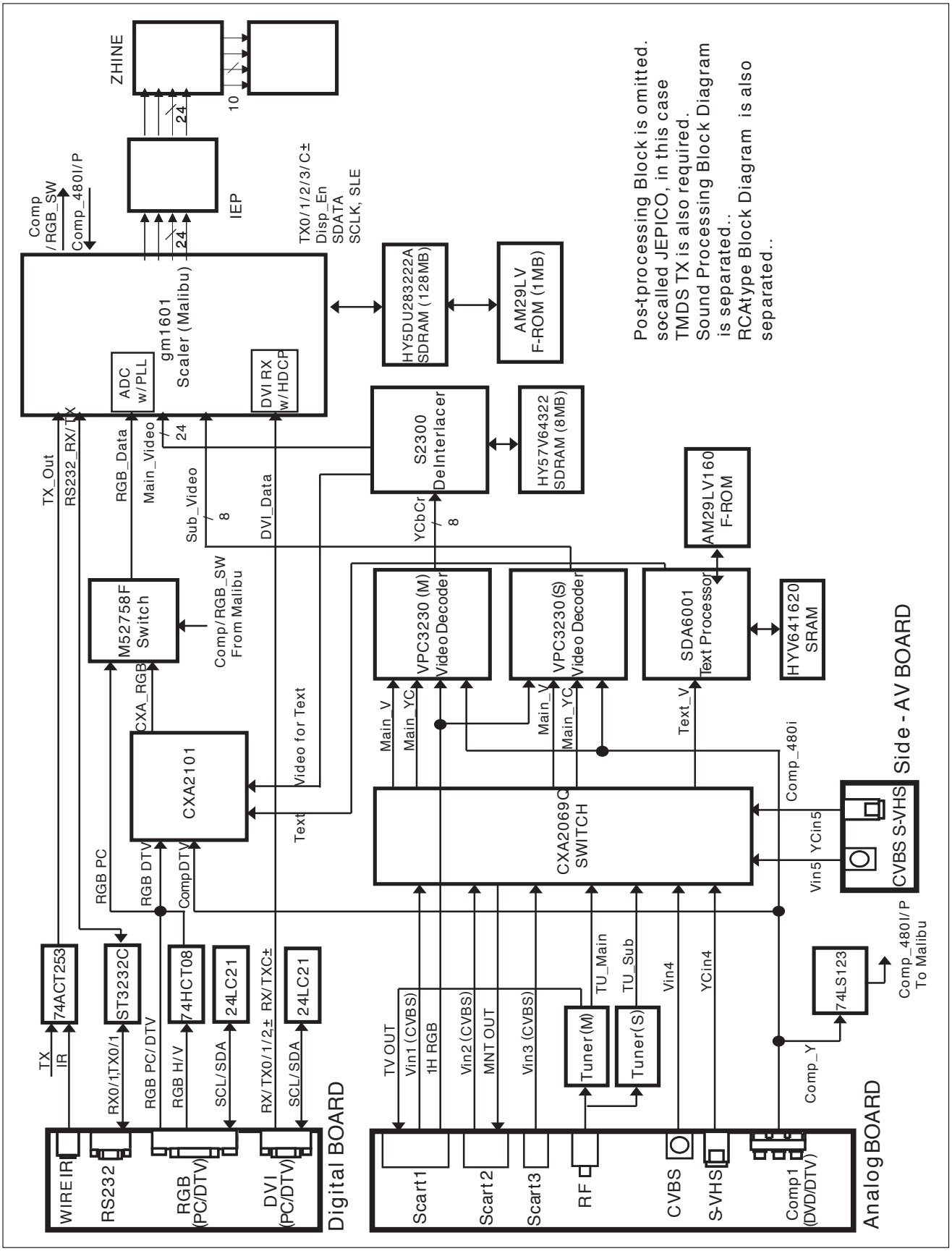
- LED is green
- Screen display but sound is not output

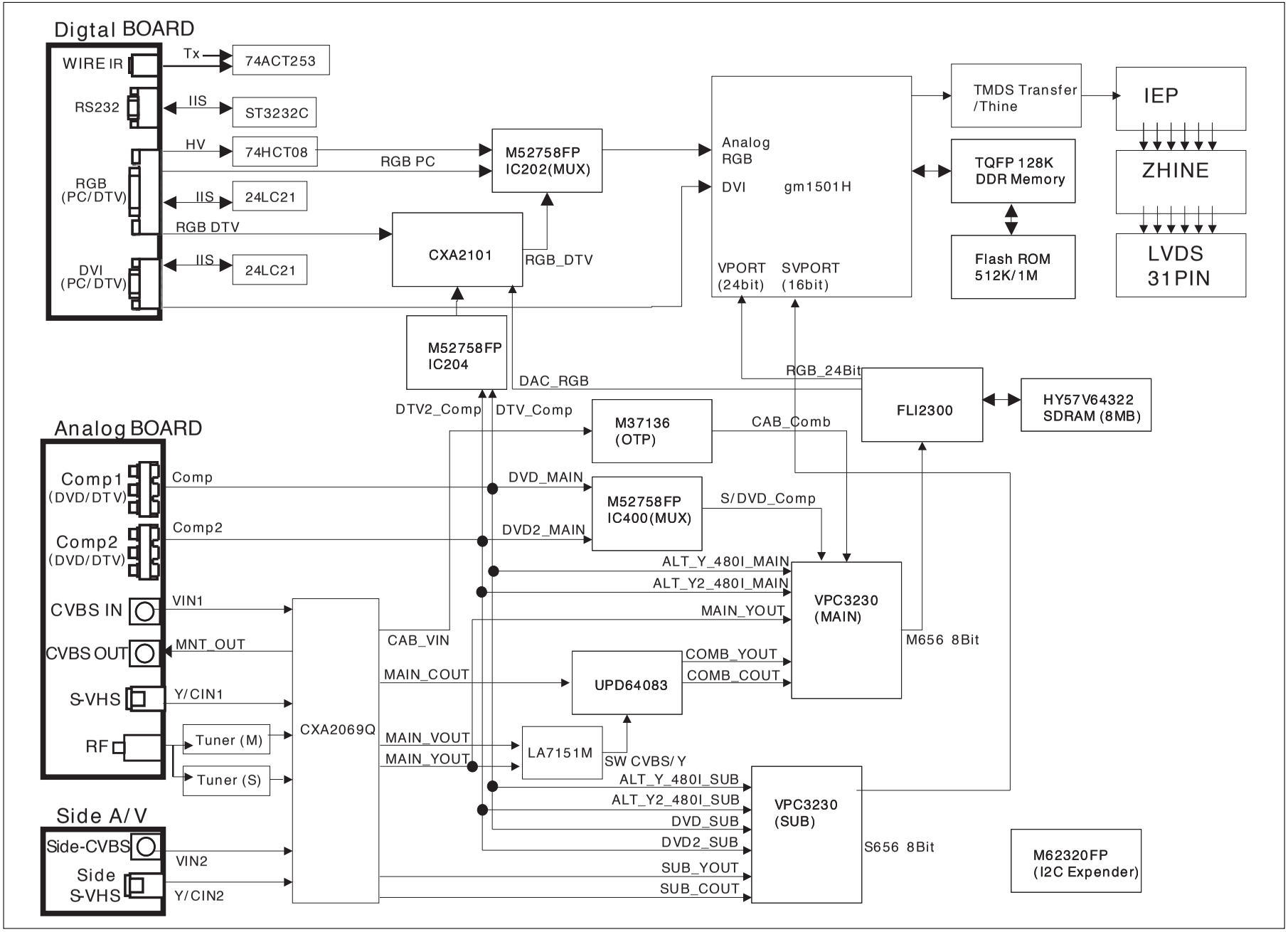


(2) Check follow

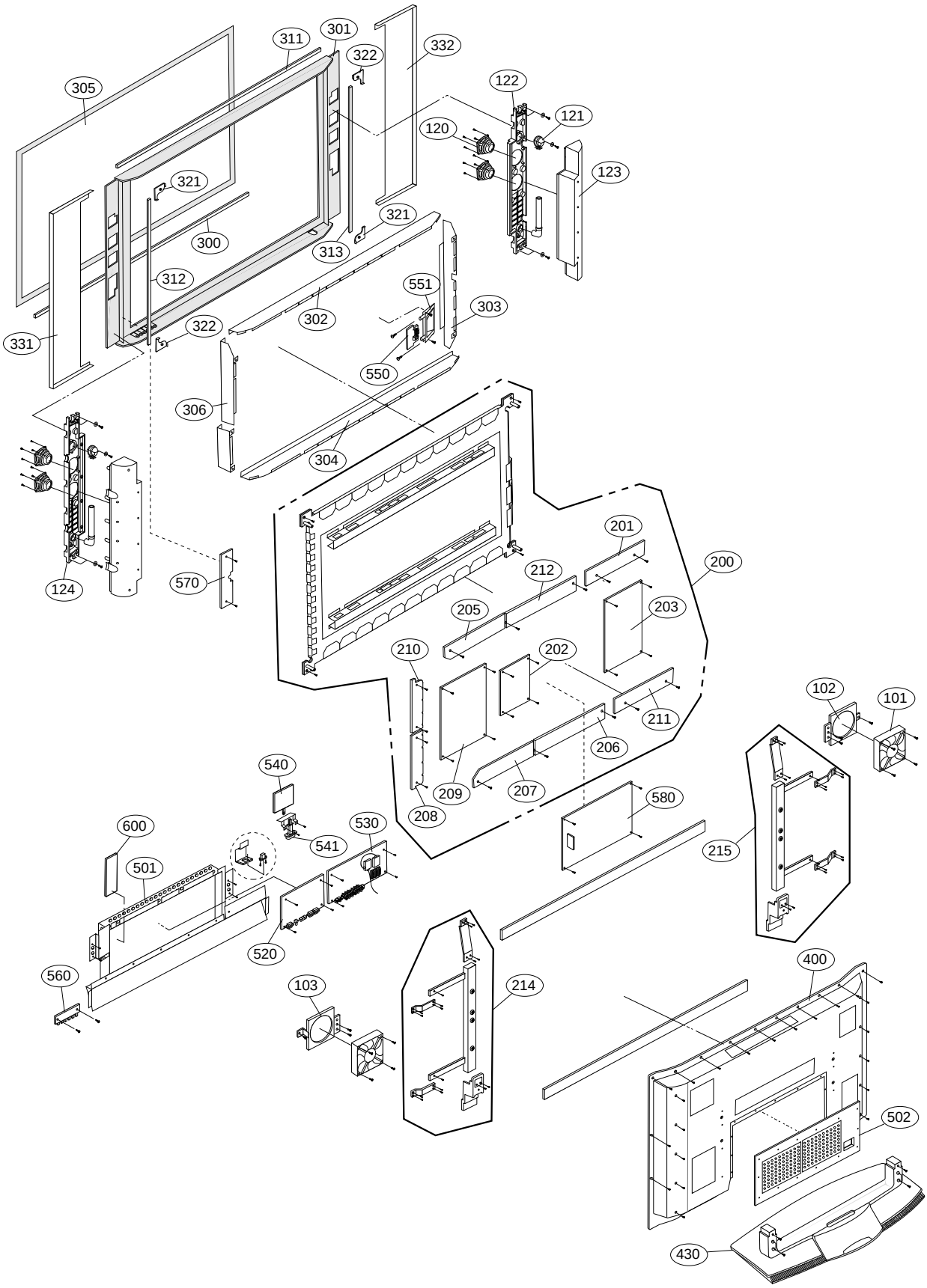


BLOCK DIAGRAM




Digtal BOARD
WIRE IR
Tx
74ACT253
RS232
IIS
ST3232C
HV
74HCT08
RGB PC
M52758FP
IC202(MUX)
RGB
(PC/DTV)
IIS
24LC21
RGB DTV
CXA2101
RGB_DTV
DVI
(PC/DTV)
IIS
24LC21
Analog
RGB
DVI
gm1501H
VPORT
(24bit)
SVPORT
(16bit)
TMDS Transfer
/Thine
TQFP 128K
DDR Memory
Flash ROM
512K/1M
IEP
ZHINE
LVDS
31PIN
M52758FP
IC204
DAC_RGB
RGB_24Bit
FLI2300
HY57V64322
SDRAM (8MB)
DTV2_Comp
DTV_Comp
M37136
(OTP)
CAB_Comb
Analog BOARD
Comp1
(DVD/DTV)
Comp
DVD_MAIN
M52758FP
IC400(MUX)
S/DVD_Comp
Comp2
(DVD/DTV)
Comp2
DVD2_MAIN
ALT_Y_480I_MAIN
ALT_Y2_480I_MAIN
MAIN_YOUT
VPC3230
(MAIN)
M656 8Bit
CVBS IN
VIN1
CVBS OUT
MNT_OUT
CAB_VIN
COMB_YOUT
COMB_COUT
MAIN_COUT
UPD64083
S-VHS
Y/CIN1
CXA2069Q
RF
Tuner (M)
Tuner (S)
MAIN_VOUT
MAIN_YOUT
LA7151M
SW CVBS/Y
ALT_Y_480I_SUB
ALT_Y2_480I_SUB
DVD_SUB
DVD2_SUB
VPC3230
(SUB)
S656 8Bit
Side A/V
Side-CVBS
VIN2
Side
S-VHS
Y/CIN2
SUB_YOUT
SUB_COUT
M62320FP
(I2C Expender)

EXPLODED VIEW



EXPLODED VIEW PARTS LIST

No.	Part No.		Description
	SET	SKD	
101	5900V12003B	5900V12003B	FAN,DC D12025S SDS 120MM*120MM*25MM 12V/0.2A 1300 5V-13.2V RPM
102	4980V00A57A	4980V00A57B	SUPPORTER, ASSY EGI LEFT 50PY10
103	4980V00A56A	4980V00A56B	SUPPORTER, ASSY EGI RIGHT 50PY10
120	6400WTTX01A	6400WTTX01A	SPEAKER,WOOFER N21C-6539-27C 16 OHM 10/15W 78DB OTHERS 56MM*56MM
121	6400TTTX01A	6400TTTX01A	SPEAKER,TWEETER N08D-6560 8 OHM 10/15W 77DB OTHERS 29MM*29MM
122	3110V00351A	3110V00351A	CASE, FRONT (R)SPEAKER DN-50PY10 ABS PDP
123	3550V00396A	3550V00396A	COVER, DUCT DN-50PY10 ABS PDP
124	3110V00352A	3110V00352A	CASE, FRONT (L)SPEAKER DN-50PY10 ABS PDP
200	6348Q-C036H	6348Q-C037N	PDP, 50” 16:9 1365*768 PDP50X20562
201	6871QRH041C	6871QRH041C	PWB(PCB) ASSEMBLY,DISPLAY XRRT ASSY HAND INSERT 50X2A COF RESISTOR
202	6871QCH045A	6871QCH045A	PWB(PCB) ASSEMBLY,DISPLAY CTRL ASSY HAND INSERT 4023 50X2 FOR CI
203	6871QZH036B	6871QZH036B	PWB(PCB) ASSEMBLY,DISPLAY ZSUS ASSY HAND INSERT 50X2A 4LAYER
205	6871QLH035C	6871QLH035C	PWB(PCB) ASSEMBLY,DISPLAY XRLT ASSY HAND INSERT 50X2A COF RESISTOR
206	6871QXH025C	6871QXH025C	PWB(PCB) ASSEMBLY,DISPLAY XRCB ASSY HAND INSERT 50X2A COF RESISTOR
207	6871QLH036C	6871QLH036C	PWB(PCB) ASSEMBLY,DISPLAY XRLB ASSY HAND INSERT 50X2A COF RESISTOR
208	6871QDH081A	6871QDH081A	PWB(PCB) ASSEMBLY,DISPLAY YDRV ASSY HAND INSERT 50X2A YDRV_BTM
209	6871QYH032B	6871QYH032B	PWB(PCB) ASSEMBLY,DISPLAY YSUS ASSY HAND INSERT 50X2A YSUS 4LAYER
210	6871QDH080A	6871QDH080A	PWB(PCB) ASSEMBLY,DISPLAY YDRV ASSY HAND INSERT 50X2A YDRV_TOP
211	6871QRH042C	6871QRH042C	PWB(PCB) ASSEMBLY,DISPLAY XRRB ASSY HAND INSERT 50X2A COF RESISTOR
212	6871QXH024C	6871QXH024C	PWB(PCB) ASSEMBLY,DISPLAY XRCT ASSY HAND INSERT 50X2A COF RESISTOR
214	4980V00A53A	4980V00A53C	SUPPORTER, ASSY AL MODULE RIGHT
215	4980V00B46B	4980V00B46E	SUPPORTER, ASSY AL MODULE LEFT
300	3210V00242C	3210V00242C	FRAME, BOTTOM AL RZ-50PY10 TV/AV MENU VOL PR
301	3091V00635A	3091V00635A	CABINET ASSEMBLY, DN-50PY10 STEREO E_PHONE AB00EA CABINET ASSY
302	4980V01073B	4980V01073C	SUPPORTER, ASSY AL 50PY10 TOP
303	4980V01076C	4980V01076D	SUPPORTER, FILTER EGI 4980V01074Bz LEFT 50PY10
304	4980V01074B	4980V01074C	SUPPORTER, ASSY AL 50PY10 BOTTOM
305	5230V00020C	5230V00020C	FILTER(MECH), DU-50PY10 LG-CHEMICAL FLATRON PLASMA DELETE LG FOR AMREICA
306	4980V01075C	4980V01075D	SUPPORTER, FILTER EGI RIGHT 50PY10
311	3210V00241A	3210V00241A	FRAME, FRONT UPPER AL DN-50PY10 PDP
312	3210V00243A	3210V00243A	FRAME, FRONT AL RIGHT, DN-50PY10 PDP”
313	3210V00261A	3210V00261A	FRAME, FRONT SIDE AL DN-50PY10 FOR LEFT(NEW P/NO)
321	4972V00105A	4972V00105A	FIXER, FRAME AL DN-50PY10 PDP
322	4972V00106A	4972V00106A	FIXER, FRAME AL DN-50PY10 PDP
331	4811V00089A	4811V00089A	BRACKET ASSEMBLY, SPEAKER DN-50PY10 R(4810V00946) AB00EA .
332	4811V00090A	4811V00090A	BRACKET ASSEMBLY, SPEAKER DN-50PY10 L(4810V00947) AB00EA .
400	3809V00441A	3809V00441B	BACK COVER ASSEMBLY, DN-50PY10
	3809V00441D	-	BACK COVER ASSEMBLY, RT/RZ-50PY10 W/L 3850V0002
430	3501V00178B	3501V00178C	BOARD ASSEMBLY, ASSY AP-50DY11 AF044A FOR SKD W/O PACKING(MOLD BOARD)
501	3301V00018D	3301V00018E	PLATE ASSEMBLY, ASSY 3301V00029D+3300V00319B RZ-50PY10
502	3301V00034B	3301V00034D	PLATE ASSEMBLY, B/COVER 3300V00364A 3-SCART
520	6871VMMT35B	6871VMMT35A	PWB(PCB) ASSEMBLY,MAIN RF-043B DIGITAL BOARD MANUAL
530	6871VSMZ56A	6871VSMZ56A	PWB(PCB) ASSEMBLY,SUB TUNER RF043B MALIBU RZ50 SUB ANALOG MANUAL
540	6871VSME92A	6871VSME92A	PWB(PCB) ASSEMBLY,SUB PSW RF043A MAILBU
541	5020V00948A	5020V00948C	BUTTON, POWER RZ-50PY10 ABS, AF-303S 1KEY
550	6871VSME91A	6871VSME91A	PWB(PCB) ASSEMBLY,SUB A/V RF043A MALIBU SIDE AV
551	4811V00095C	4811V00095D	BRACKET ASSEMBLY, SIDE AV RZ-50PY10 RF043B BRACKET ASSY
560	6871VSMG24A	6871VSMG24A	PWB(PCB) ASSEMBLY,SUB KEYBOARD RF043B RZ-50PY10 LOCAL_KEY
570	6871VSMABOA	6871VSMABOA	PWB(PCB) ASSEMBLY,SUB LED RF043B 50 INDEX B/D ASSY
580	3501V00187A	3501V00187A	BOARD ASSEMBLY, POWER RZ-50PX10 RF043B SANKEN 1H211W1 PDP 50 PSU H/C
600	6871VSMG27A	6871VSMG27A	PWB(PCB) ASSEMBLY,SUB CONT RF043B SUB RF043A FAN CTRL
	6871VSMG27B	-	PWB(PCB) ASSEMBLY,SUB CONT RF043B 50 FAN CONTROL(NATIONAL)

REPLACEMENT PARTS LIST

LOCA. NO	PART NO	DESCRIPTION
IC		
IC100	0IMI623200B	M62320FP,I/O EXPANDER 16P SOP TP
IC100	0IMMRAL014B	AT24C02N-10SI-2.7 ATMEL 8P SOIC
IC1000	0IMCRFA010A	KA7809R, FAIRCHILD 2P D-PAK
IC1001	0IPRPML001A	MIC39100 MICREL 3P SOT223
IC1002	0IMCRSH001A	PQ05DZ1U SHARP 5, SMD TYPE
IC1003	0ITK118100B	TK11840L 8P SOT23L
IC1004	0IMCRSH001A	PQ05DZ1U SHARP 5, SMD TYPE
IC101	0IMI623200B	M62320FP,I/O EXPANDER 16P SOP TP
IC101	0IMMRAL014B	AT24C02N-10SI-2.7 ATMEL 8P SOIC
IC102	0IMCRTI003A	SN74HCT08D 16P
IC102	0IMI623200B	M62320FP,I/O EXPANDER 16P SOP TP
IC103	0IMCRTI021A	SN74LVTH541PWR 20P TSSOP
IC104	0IMCRTI021A	SN74LVTH541PWR 20P TSSOP
IC105	0IMCRFA015A	KA7805R FAIRCHILD 2P D-PAK
IC1100	0IMCRTH002A	THC63LVD103 THINE ELECTRONICS 64P TQFP
IC1200	0IMCRSJ001A	SC1565IST-1.8 SEMTECH 3P SOT223 TP
IC1201	0IPRPML001A	MIC39100 MICREL 3P SOT223+C190
IC1202	0IMCRFA010A	KA7809R, FAIRCHILD 2P D-PAK, R/TP IC
IC1300	0IMCRRH001A	BA033FP-E2 ROHM 3P-SOP,TO252-3
IC1301	0IMCRSH001A	PQ05DZ1U SHARP 5, SMD TYPE R/TP
IC1302	0IMCRSH001A	PQ05DZ1U SHARP 5, SMD TYPE R/TP
IC1303	0IMCRRH001A	BA033FP-E2 ROHM 3P-SOP,TO252-3
IC1304	0IMCRSJ001A	SC1565IST-1.8 SEMTECH 3P SOT223 TP
IC1305	0IMCRRH001A	BA033FP-E2 ROHM 3P-SOP,TO252-3
IC1306	0IPRPML001A	MIC39100 MICREL 3P SOT223
IC200	0IFA742530B	74ACT253SC FAIRCHILD 16P SOIC
IC201	0IMCRSG010A	ST3232CDR SGS-THOMSON SOP16
IC202	0IMCRMI006A	M52758FP MITSUBISHI 36PIN, R/TP PLL IC
IC203	0ISTLSG009A	M74HC123RM13TR 16P SOP
IC204	0ISTLSG009A	M74HC123RM13TR 16P SOP
IC400	0ISO206900A	CXA2069Q QFP64 BK I2C BUS AV S/W
IC401	0ISO210100B	CXA2101AQ 80P,QFP BK VIDEO
IC402	0IMCRTI003A	SN74HCT08D 16P R/TP QUADRUPLE
IC403	0ISTLSG009A	M74HC123RM13TR 16P SOP
IC500	0ICTMLG018A	LGDP4410 LG IC 176P TQFP TRAY IEP
IC500	0IMCRMN023A	SDA6001 QH B12 MICRONAS 128P MQFP
IC5001	0IKE780500Q	KIA7805API 3P TO-220 ST 5V(=KIA7805PI)
IC5002	0ISH092100B	PQ09RD21 4SIP ST -
IC5003	0ISH092100B	PQ09RD21 4SIP ST -
IC5004	0ISH122100B	PQ12RD21 4SIP ST -
IC5005	0IMI623200B	M62320FP,I/O EXPANDER 16P SOP TP
IC5006	0IDS162100B	DS1621V 8P SOIC ST THERMOSTAT -
IC501	0IMMRHY001F	HY57V641620HGT-H HYNIX 54P TSOPII
IC502	0IMMRMR006B	MX29LV160ATTC-70 MACRONIX 48P TSOP
IC503	0IMCRAL006A	AT24C16AN-10SI-2.7 ATMEL 8P SOIC
IC504	0IKE702700D	KIA7027AF 3, SOT-89 TP RESET IC 2.7V
IC600	0IIT323000E	VPC3230D C5 80P QFP
IC600	0IMCRGN002C	FLI2300BD GENESIS 208P PQFP
IC601	0IMMRHY033A	HY57V643220C(L)T-6 HYNIX 86P TSOP
IC700	0IIT323000E	VPC3230D C5 80P QFP
IC700	0IPRPGN012A	GM1501HBD GENESIS 416P PBGA
IC701	0IMMRAL025A	AT24C32AN-10SI-2.7 ATMEL 8PIN SOP TP 32K 3.3V
IC702	0IKE704200J	KIA7042AF SOT-89 TP 4.2V VOLTAGE DETECTOR
IC800	0IMCRMN028A	MSP4410G-QA-C13-101WITH SRS WOW
IC800	0IMMRHY020B	HY5DU283222AQ-5 HYNIX 100P LQFP
IC801	0IMCRNL001A	NSP-6241B NEOFIDELITY 64P TQFP
IC801	0IMMRMR023A	MX29LV800TTC-70 MACRONIX 48PIN,TSOP
IC802	0IMCRTI028C	TAS5122DCAR 56P/TSSOP
IC803	0IPRPJR017A	NJU26901E2 JRC 8P,EMP
IC805	0IKE704200J	KIA7042AF SOT-89 TP 4.2V
TRANSISTOR		
Q100	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q100	0TR830009BA	BSS83 TP PHILIPS N-CHANNEL S/W TR
Q1000	0TRKE80038A	KTC3552T-RTK KEC R/TP SOT-23F 50V 3A
Q101	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q101	0TR830009BA	BSS83 TP PHILIPS N-CHANNEL S/W TR
Q102	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q102	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q102	0TR830009BA	BSS83 TP PHILIPS N-CHANNEL S/W TR
Q103	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q103	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q103	0TR830009BA	BSS83 TP PHILIPS N-CHANNEL S/W TR
Q104	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q105	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q105	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q106	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q106	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q107	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q107	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q108	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q108	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q109	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q109	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q110	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q110	0TR830009BA	BSS83 TP PHILIPS N-CHANNEL S/W TR
Q111	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q111	0TR830009BA	BSS83 TP PHILIPS N-CHANNEL S/W TR
Q112	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q113	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q114	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q1200	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q1201	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q1202	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q1501	0TR830009BA	BSS83 TP PHILIPS N-CHANNEL S/W TR
Q1503	0TR830009BA	BSS83 TP PHILIPS N-CHANNEL S/W TR
Q207	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q208	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q209	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q210	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q211	0TR104009AF	CHIP KRC104S SOT-23 TP KEC
Q214	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q215	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q216	0TR104009AF	CHIP KRC104S SOT-23 TP KEC

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CQ : Polyestor
CE : Electrolytic

RD : Carbon Film
RS : Metal Oxide Film
RN : Metal Film
RF : Fusible

LOCA. NO	PART NO	DESCRIPTION
Q217	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q218	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q219	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q300	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q301	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q302	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q303	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q304	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q305	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q306	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q307	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q308	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q309	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q310	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q311	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q312	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q313	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q314	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q315	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q316	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q400	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q400	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q401	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q401	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q402	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q402	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q403	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q403	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q404	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q405	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q406	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q800	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q801	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q802	0TR387500AA	CHIP 2SC3875S(ALY) KEC

DIODE

D100	0DD226239AA	CHIP KDS226 SOT-23
D100	0DD226239AA	CHIP KDS226 SOT-23
D1000	0DD226239AA	CHIP KDS226 SOT-23
D1001	0DD184009AA	KDS184S CHIP 85V 300MA KEC TP
D1002	0DD226239AA	CHIP KDS226 SOT-23
D1003	0DD226239AA	CHIP KDS226 SOT-23
D1004	0DD226239AA	CHIP KDS226 SOT-23
D101	0DD226239AA	CHIP KDS226 SOT-23
D101	0DD226239AA	CHIP KDS226 SOT-23
D102	0DD226239AA	CHIP KDS226 SOT-23
D105	0DD184009AA	KDS184S CHIP 85V 300MA KEC TP
D106	0DD184009AA	KDS184S CHIP 85V 300MA KEC TP
D116	0DD226239AA	CHIP KDS226 SOT-23
D117	0DD226239AA	CHIP KDS226 SOT-23
D118	0DD226239AA	CHIP KDS226 SOT-23
D119	0DD226239AA	CHIP KDS226 SOT-23

LOCA. NO	PART NO	DESCRIPTION
D120	0DD226239AA	CHIP KDS226 SOT-23
D1200	0DD226239AA	CHIP KDS226 SOT-23
D1201	0DD226239AA	CHIP KDS226 SOT-23
D1206	0DD226239AA	CHIP KDS226 SOT-23
D121	0DD226239AA	CHIP KDS226 SOT-23
D122	0DD226239AA	CHIP KDS226 SOT-23
D123	0DD226239AA	CHIP KDS226 SOT-23
D124	0DD226239AA	CHIP KDS226 SOT-23
D125	0DD226239AA	CHIP KDS226 SOT-23
D126	0DD226239AA	CHIP KDS226 SOT-23
D127	0DD226239AA	CHIP KDS226 SOT-23
D128	0DD226239AA	CHIP KDS226 SOT-23
D129	0DD226239AA	CHIP KDS226 SOT-23
D130	0DD226239AA	CHIP KDS226 SOT-23
D1300	0DD226239AA	CHIP KDS226 SOT-23
D1301	0DD226239AA	CHIP KDS226 SOT-23
D1302	0DD226239AA	CHIP KDS226 SOT-23
D1303	0DD226239AA	CHIP KDS226 SOT-23
D1304	0DD226239AA	CHIP KDS226 SOT-23
D1305	0DD226239AA	CHIP KDS226 SOT-23
D1306	0DD226239AA	CHIP KDS226 SOT-23
D131	0DD226239AA	CHIP KDS226 SOT-23
D1501	0DD226239AA	CHIP KDS226 SOT-23
D1503	0DD226239AA	CHIP KDS226 SOT-23
D200	0DD226239AA	CHIP KDS226 SOT-23
D201	0DD226239AA	CHIP KDS226 SOT-23
D202	0DD226239AA	CHIP KDS226 SOT-23
D203	0DD226239AA	CHIP KDS226 SOT-23
D204	0DD226239AA	CHIP KDS226 SOT-23
D205	0DD226239AA	CHIP KDS226 SOT-23
D400	0DD184009AA	KDS184S CHIP 85V 300MA KEC TP
D500	0DD226239AA	CHIP KDS226 SOT-23
D5001	0DD100009AM	EU1ZV(1) TP SANKEN
D501	0DD226239AA	CHIP KDS226 SOT-23
D502	0DD226239AA	CHIP KDS226 SOT-23
D503	0DD226239AA	CHIP KDS226 SOT-23
ZD100	0DR050008AA	SD05.TC R/TP SEMTECH SOD323 5V 5A 15A
ZD101	0DR050008AA	SD05.TC R/TP SEMTECH SOD323 5V 5A 15A
ZD102	0DR050008AA	SD05.TC R/TP SEMTECH SOD323 5V 5A 15A
ZD103	0DR050008AA	SD05.TC R/TP SEMTECH SOD323 5V 5A 15A
ZD104	0DR050008AA	SD05.TC R/TP SEMTECH SOD323 5V 5A 15A
ZD105	0DR050008AA	SD05.TC R/TP SEMTECH SOD323 5V 5A 15A
ZD206	0DR050008AA	SD05.TC R/TP SEMTECH SOD323 5V 5A 15A
ZD207	0DR050008AA	SD05.TC R/TP SEMTECH SOD323 5V 5A 15A
ZD208	0DR050008AA	SD05.TC R/TP SEMTECH SOD323 5V 5A 15A
ZD400	0DR050008AA	SD05.TC R/TP SEMTECH SOD323 5V 5A 15A
ZD401	0DR050008AA	SD05.TC R/TP SEMTECH SOD323 5V 5A 15A
ZD800	0DZ820009AH	MTZJ8.2B TP ROHM-K DO34 - 8.2V 5UA -

CAPACITOR

C1001	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C1002	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD

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LOCA. NO	PART NO	DESCRIPTION
C1004	0CE475SK6DC	4.7UF MVG 50V 20% SMD R/TP
C1006	0CE477SF6DC	470UF MVG 16V 20% R/TP(SMD) SMD
C1016	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C1017	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C1018	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C102	0CE475SK6DC	4.7UF MVG 50V 20% SMD R/TP
C1020	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C1022	0CE477SF6DC	470UF MVG 16V 20% R/TP(SMD) SMD
C1025	0CE475SK6DC	4.7UF MVG 50V 20% SMD R/TP
C1027	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C1031	0CE477SF6DC	470UF MVG 16V 20% R/TP(SMD) SMD
C1037	0CE477SF6DC	470UF MVG 16V 20% R/TP(SMD) SMD
C104	0CE476DF618	47UF STD 16V M FL TP5
C1042	0CE477SF6DC	470UF MVG 16V 20% R/TP(SMD) SMD
C1045	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C105	0CE476DF618	47UF STD 16V M FL TP5
C1058	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C1059	0CE477DJ618	470UF STD 35V 20% FL TP 5
C1060	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C1063	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C1066	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C1067	0CE477DJ618	470UF STD 35V 20% FL TP 5
C107	0CE477SF6DC	470UF MVG 16V 20% R/TP(SMD) SMD
C1072	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C1074	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C1078	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C1079	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C108	0CE477SF6DC	470UF MVG 16V 20% R/TP(SMD) SMD
C1081	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C111	0CE475SK6DC	4.7UF MVG 50V 20% SMD R/TP
C112	0CE477SF6DC	470UF MVG 16V 20% R/TP(SMD) SMD
C113	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C114	0CE475SK6DC	4.7UF MVG 50V 20% SMD R/TP
C120	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C1202	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C1205	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C1206	0CE477SF6DC	470UF MVG 16V 20% R/TP(SMD) SMD
C121	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C121	0CE477SF6DC	470UF MVG 16V 20% R/TP(SMD) SMD
C1211	0CE477SF6DC	470UF MVG 16V 20% R/TP(SMD) SMD
C1212	0CE477SF6DC	470UF MVG 16V 20% R/TP(SMD) SMD
C1215	0CE477SF6DC	470UF MVG 16V 20% R/TP(SMD) SMD
C1216	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C1218	0CE477SF6DC	470UF MVG 16V 20% R/TP(SMD) SMD
C1220	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C1223	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C1229	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C1233	0CE477SF6DC	470UF MVG 16V 20% R/TP(SMD) SMD
C124	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C1249	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C1250	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C1251	0CE477SF6DC	470UF MVG 16V 20% R/TP(SMD) SMD

LOCA. NO	PART NO	DESCRIPTION
C1254	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C1256	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C1257	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C1259	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C127	0CE475SK6DC	4.7UF MVG 50V 20% SMD R/TP
C1273	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C1274	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C1275	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C1279	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C1305	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C1314	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C1315	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C1317	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C1331	0CE477SF6DC	470UF MVG 16V 20% R/TP(SMD) SMD
C1333	0CE477SF6DC	470UF MVG 16V 20% R/TP(SMD) SMD
C1353	0CE477SF6DC	470UF MVG 16V 20% R/TP(SMD) SMD
C1355	0CE477SF6DC	470UF MVG 16V 20% R/TP(SMD) SMD
C1362	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C1366	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C1368	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C1373	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C1374	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C1384	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C1388	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C1391	0CE477SF6DC	470UF MVG 16V 20% R/TP(SMD) SMD
C1400	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C1402	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C1404	0CE477SF6DC	470UF MVG 16V 20% R/TP(SMD) SMD
C1410	0CE477SF6DC	470UF MVG 16V 20% R/TP(SMD) SMD
C1415	0CE477SF6DC	470UF MVG 16V 20% R/TP(SMD) SMD
C1425	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C208	0CE477SF6DC	470UF MVG 16V 20% R/TP(SMD) SMD
C220	0CE477SF6DC	470UF MVG 16V 20% R/TP(SMD) SMD
C222	0CE476XFKDC	47UF MVK-BP,CN 16V 20%,-20% SMD TAPPING
C223	0CE476XFKDC	47UF MVK-BP,CN 16V 20%,-20% SMD TAPPING
C224	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C224	0CE476XFKDC	47UF MVK-BP,CN 16V 20%,-20% SMD TAPPING
C225	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C226	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C227	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C230	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C251	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C254	0CN105EJ56A	1.0UF 3216 35V 10% R/TP X7R
C258	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C261	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C263	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C272	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C274	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C276	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C288	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C289	0CN105EJ56A	1.0UF 3216 35V 10% R/TP X7R
C301	0CE476SF6DC	47UF MVG 16V M SMD R/TP

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LOCA. NO	PART NO	DESCRIPTION
C302	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C304	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C316	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C317	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C318	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C323	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C325	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C327	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C400	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C401	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C402	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C404	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C406	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C410	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C423	0CE105SK6DC	1UF MVG 50V M SMD R/TP
C429	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C435	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C440	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C442	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C5007	0CE1074F618	100UF SRA 16V M FL TP5
C5009	0CE1074F618	100UF SRA 16V M FL TP5
C5016	0CE227DF618	220UF STD 16V M FL TP5
C5017	0CE105CK636	1UF SHL,SD 50V M FM5 BP(D) TP
C5018	0CE105CK636	1UF SHL,SD 50V M FM5 BP(D) TP
C5019	0CE105CK636	1UF SHL,SD 50V M FM5 BP(D) TP
C502	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C505	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C506	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C507	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C508	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C509	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C517	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C520	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C522	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C523	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C525	0CE105SK6DC	1UF MVG 50V M SMD R/TP
C527	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C529	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C534	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C604	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C612	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C615	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C627	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C629	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C632	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C702	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C703	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C709	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C712	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C720	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C723	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C726	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD

LOCA. NO	PART NO	DESCRIPTION
C737	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C744	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C752	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C757	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C762	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C769	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C777	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C778	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C785	0CE335SK6DC	3.3UF MVG 50V 20% SMD R/TP
C800	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C801	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C802	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C803	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SMD
C812	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SMD
C817	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C822	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C825	0CE335SK6DC	3.3UF MVG 50V 20% SMD R/TP
C827	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C828	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C829	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C834	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C837	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C840	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C841	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C847	0CN105EJ56A	1.0UF 3216 35V 10% R/TP X7R
C851	0CE108DH618	1000UF STD 25V M FL TP5
C852	0CE108DH618	1000UF STD 25V M FL TP5
C862	0CF4741L438	0.47UF D 63V 5% TP 5 M/PE NI
C863	0CF4741L438	0.47UF D 63V 5% TP 5 M/PE NI
C872	0CE335SK6DC	3.3UF MVG 50V 20% SMD R/TP
C873	0CN105EJ56A	1.0UF 3216 35V 10% R/TP X7R
C874	0CE108DH618	1000UF STD 25V M FL TP5
COIL		
L1004	6140VB0004B	26UH 1UEWPHY 22.5TURN YL-9N 0.4
L1005	6140VB0004B	26UH 1UEWPHY 22.5TURN YL-9N 0.4
L1006	6140VB0004B	26UH 1UEWPHY 22.5TURN YL-9N 0.4
L1007	6140VB0004B	26UH 1UEWPHY 22.5TURN YL-9N 0.4
L1200	6140VB0004B	26UH 1UEWPHY 22.5TURN YL-9N 0.4
L1203	6140VB0004B	26UH 1UEWPHY 22.5TURN YL-9N 0.4
L1209	6140VB0004B	26UH 1UEWPHY 22.5TURN YL-9N 0.4
L1213	6140VB0004B	26UH 1UEWPHY 22.5TURN YL-9N 0.4
L803	6140VB0024A	LPK-1322A SOOJUNG 22UH +-10%
L804	6140VB0024A	LPK-1322A SOOJUNG 22UH +-10%
L805	6140VB0024A	LPK-1322A SOOJUNG 22UH +-10%
L806	6140VB0024A	LPK-1322A SOOJUNG 22UH +-10%
RESISTOR		
AR500	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR501	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR502	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR503	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES

For Capacitor & Resistors, the charactors at 2nd and 3rd digit in the P/No. means as follows;	CC, CX, CK, CN : Ceramic CQ : Polyestor CE : Electrolytic	RD : Carbon Film RS : Metal Oxide Film RN : Metal Film RF : Fusible

LOCA. NO	PART NO	DESCRIPTION
AR504	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR505	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR513	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR600	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR600	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR601	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR601	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR602	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR602	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR603	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR603	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR604	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR605	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR606	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR607	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR608	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR609	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR610	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR611	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR612	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR613	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR614	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR615	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR616	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR617	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR618	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR700	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR701	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR701	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR702	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR703	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR707	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR708	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR709	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR710	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR711	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR712	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR713	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR714	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR715	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR717	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR718	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR719	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
R5026	0RD0152H609	15 OHM 1/2 W 5.00% TA52
R801	0RKZVTA001L	1.0M OHM 1/2 W 5% TA52 UL PILKOR
R802	0RKZVTA001L	1.0M OHM 1/2 W 5% TA52 UL PILKOR
LED		
IC103	6301V00003A	UEX-LD-048 UGCOM DN-50PY10 WHITE LED INDEX
IC104	6301V00003A	UEX-LD-048 UGCOM DN-50PY10 WHITE LED INDEX
LD1000	0DL233309AC	SAM2333 GREEN/RED GREEN:10MCD, RED:6MCD
LD1001	0DL233309AC	SAM2333 GREEN/RED GREEN:10MCD, RED:6MCD

LOCA. NO	PART NO	DESCRIPTION
LD1002	0DL233309AC	SAM2333 GREEN/RED GREEN:10MCD, RED:6MCD
LD1003	0DL233309AC	SAM2333 GREEN/RED GREEN:10MCD, RED:6MCD
LD1203	0DL233309AC	SAM2333 GREEN/RED GREEN:10MCD, RED:6MCD
LD1204	0DL233309AC	SAM2333 GREEN/RED GREEN:10MCD, RED:6MCD
LD1206	0DL233309AC	SAM2333 GREEN/RED GREEN:10MCD, RED:6MCD
LD1207	0DL233309AC	SAM2333 GREEN/RED GREEN:10MCD, RED:6MCD
SWITCH		
SW201	140-315A	TACT SKHV17910B LG C&D 12V
SW202	140-315A	TACT SKHV17910B LG C&D 12V
SW203	140-315A	TACT SKHV17910B LG C&D 12V
SW204	140-315A	TACT SKHV17910B LG C&D 12V
SW205	140-315A	TACT SKHV17910B LG C&D 12V
SW206	140-315A	TACT SKHV17910B LG C&D 12V
SW800	6600VM2006A	SDDF3PATP011 250V 4A HORIZONTAL .G
FILTER & CRYSTAL		
L100	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L100	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L1000	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L1002	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L1008	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L1009	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L101	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L101	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L1010	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L1011	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L1012	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L1013	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L1014	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L1015	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L1016	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L1017	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L1018	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L1019	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L102	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L102	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L102	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L103	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L103	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L103	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L104	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L104	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L105	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L105	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L106	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L107	6200JB8010L	MLB-201209-1000L-N2 R/TP 1000OHM 350MA
L108	6200JB8010L	MLB-201209-1000L-N2 R/TP 1000OHM 350MA
L1201	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L1206	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L1207	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L1210	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP

LOCA. NO	PART NO	DESCRIPTION
L1211	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L1216	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L1217	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L1300	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L1302	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L1303	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L1304	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L1305	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L1307	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L1310	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L1311	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L1312	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L1313	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L1314	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L1315	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L1316	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L1317	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L1318	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L1321	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L1322	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L1325	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L1326	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L1327	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L1328	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L1329	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L1330	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L1331	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L1332	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L1333	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L1500	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L200	6200JB8013L	BEAD FEELUX R/TP 60 OHM TB201209U060
L200	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L201	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L201	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L202	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L203	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L204	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L205	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L206	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L207	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L208	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L210	6200JB8010L	MLB-201209-1000L-N2 R/TP 1000OHM 350MA
L211	6200JB8010L	MLB-201209-1000L-N2 R/TP 1000OHM 350MA
L212	6200JB8010L	MLB-201209-1000L-N2 R/TP 1000OHM 350MA
L213	6200JB8010L	MLB-201209-1000L-N2 R/TP 1000OHM 350MA
L213	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L214	6200JB8010L	MLB-201209-1000L-N2 R/TP 1000OHM 350MA
L215	6200JB8010L	MLB-201209-1000L-N2 R/TP 1000OHM 350MA
L216	6200JB8010L	MLB-201209-1000L-N2 R/TP 1000OHM 350MA
L216	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L300	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L301	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP

LOCA. NO	PART NO	DESCRIPTION
L302	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L305	6210VC0005A	BK2125 HS 750 2X1.25X0.85MM R/TP
L306	6210VC0005A	BK2125 HS 750 2X1.25X0.85MM R/TP
L307	6210VC0005A	BK2125 HS 750 2X1.25X0.85MM R/TP
L308	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L309	6200JB8010L	MLB-201209-1000L-N2 R/TP 1000OHM 350MA
L310	6200JB8010L	MLB-201209-1000L-N2 R/TP 1000OHM 350MA
L311	6200JB8010L	MLB-201209-1000L-N2 R/TP 1000OHM 350MA
L312	6200JB8010L	MLB-201209-1000L-N2 R/TP 1000OHM 350MA
L313	6200JB8010L	MLB-201209-1000L-N2 R/TP 1000OHM 350MA
L314	6200JB8010L	MLB-201209-1000L-N2 R/TP 1000OHM 350MA
L400	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L400	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L401	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L401	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L402	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L403	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L404	6210VC0005A	BK2125 HS 750 2X1.25X0.85MM R/TP
L405	6210VC0005A	BK2125 HS 750 2X1.25X0.85MM R/TP
L406	6210VC0005A	BK2125 HS 750 2X1.25X0.85MM R/TP
L407	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L408	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L500	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L5001	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L501	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L502	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L503	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L504	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L505	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L506	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L507	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L700	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L800	6210VC0006A	FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L807	6200JB8010L	MLB-201209-1000L-N2 R/TP 1000OHM 350MA
L808	6200JB8010L	MLB-201209-1000L-N2 R/TP 1000OHM 350MA
R102	6200JB8010L	MLB-201209-1000L-N2 R/TP 1000OHM 350MA
R103	6200JB8010L	MLB-201209-1000L-N2 R/TP 1000OHM 350MA
R106	6200JB8010L	MLB-201209-1000L-N2 R/TP 1000OHM 350MA
R107	6200JB8010L	MLB-201209-1000L-N2 R/TP 1000OHM 350MA
R108	6200JB8010L	MLB-201209-1000L-N2 R/TP 1000OHM 350MA
X500	6202VDT002K	RESONATOR,CRYSTAL SX-1 6MHZ
X600	6202VDB007B	RESONATOR,CRYSTAL HC49U 20.250MHZ
X600	6202VDT002J	RESONATOR,CRYSTAL SX-1 13.500000MHZ
X700	6202VDB007B	RESONATOR,CRYSTAL HC49U 20.250MHZ 30PPM
X700	6202VDT002B	RESONATOR,CRYSTAL SX-1 SC14.3MHZ
X800	156-A02M	RESONATOR,CRYSTAL HC49U 18.432MHZ 30PPM
JACK		
JK103	6613V00026A	UJB-03-28A UGCOMATING
JK200	6612M00009A	UJB-R1-033 UGCOM 21P
JK201	6612M00009A	UJB-R1-033 UGCOM 21P
JK202	6612M00009A	UJB-R1-033 UGCOM 21P

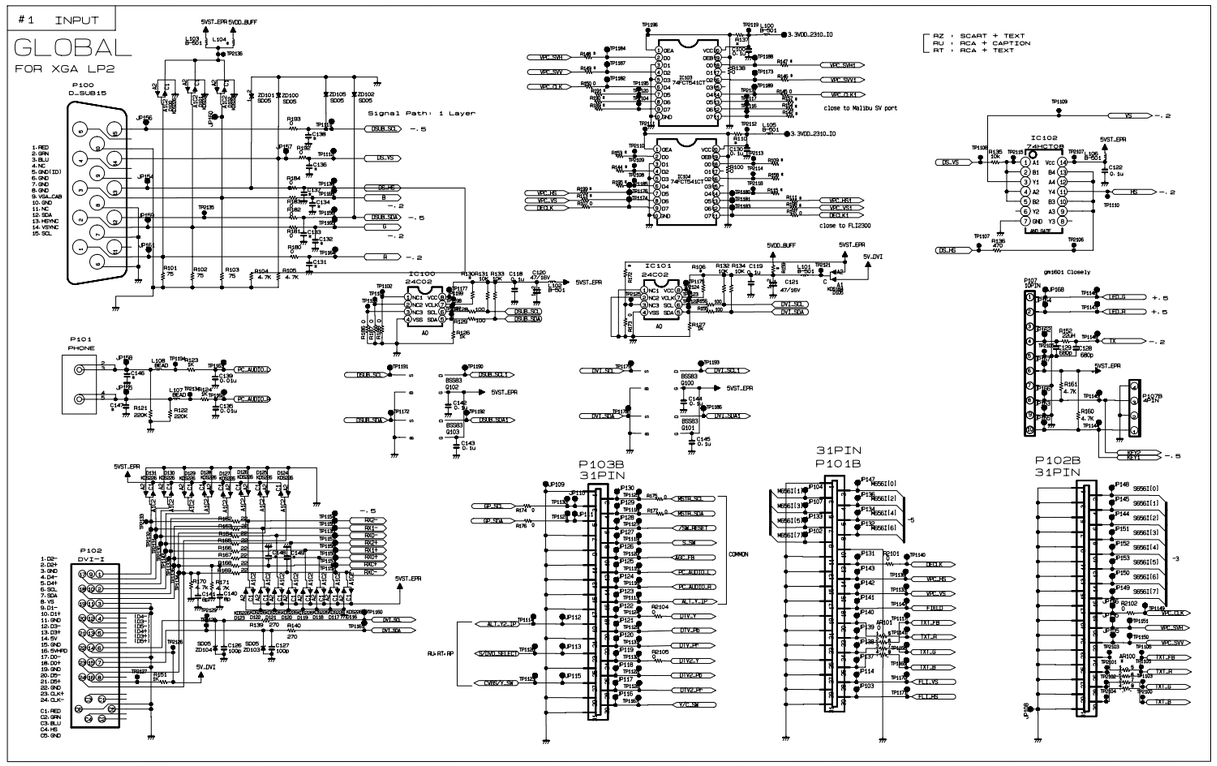
LOCA. NO	PART NO	DESCRIPTION
JK300	6612J00057A	UJB-08-01A UGCOM 8P RCA+1P
P101	380-068E	UEJ-CV-018 UGCOM D3.5 E/P
P102	6612BBBHN6A	440062-1 AMP DVI INTERACED
P201	380-068E	UEJ-CV-018 UGCOM D3.5 E/P
ACCESSORIES		
A1	3828VA0509F	MANUAL,OWNERS EN/GE/SP/PO/FR/IT/NE/GR 116W TX
A2	6710V00116W	REMOTE CONTROLLER,AF045A RZ-50PY10
A3	6410VBH003D	POWER CORD,MP5004(10A)+V1625 ASTA&CPS 2800MM
A4	6850J00004A	CABLE,DVI LVDS UL20276 AWG30 500MM
A5	6850VA0004J	CABLE,COAXIAL CABLE(PAL) UL1365#26 150MM
A6	4810V00509B	BRACKET,WALL AP-60DA10
MISCELLANEOUS		
F801	0FS1002B53K	FUSE,SLOW BLOW10000MA 250 V 5.2X20
P100	6630VGA001C	CONNECTOR (CIRC),D-SUB 68114-1521 15PIN 2.29MM
P200	6630VGA004B	CONNECTOR (CIRC),D-SUB 69107-0921 9P 2.77MM
S1	6851V00022C	CABLE,COAXIAL(150MM),UL1365#26 VW-1
TU100	6700MF0010A	TUNER,TAUM-W501P 4 SYSTEM MAIN
TU101	6700MF0010B	TUNER,TAFM-W502P 4SYSTEM SUB

LOCA. NO	PART NO	DESCRIPTION

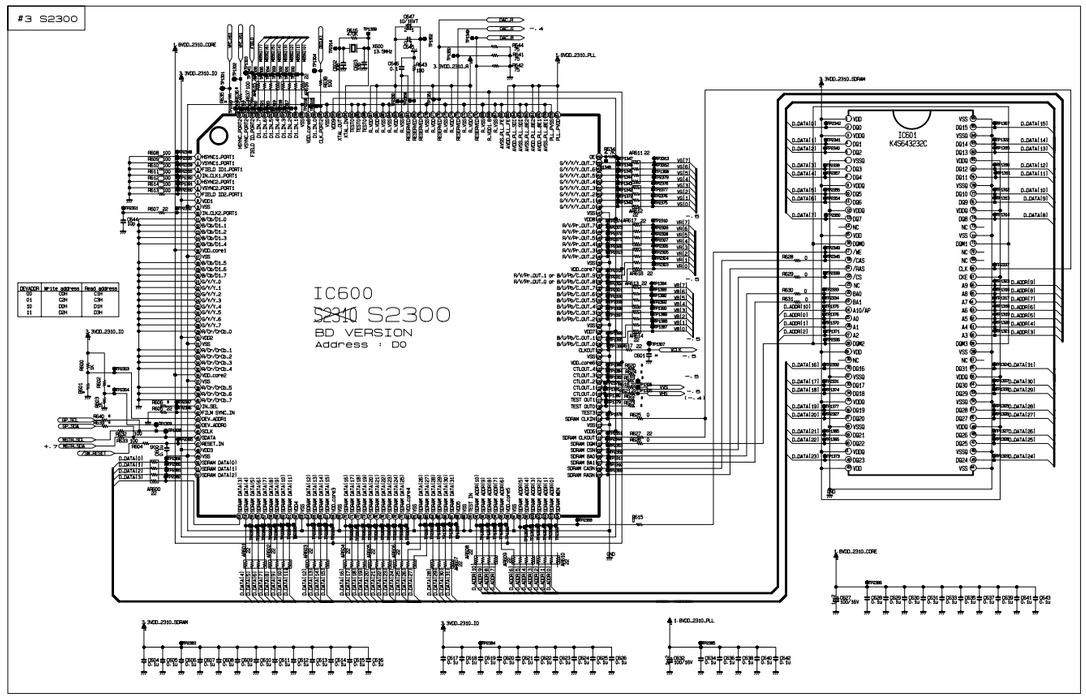
#1 INPUT

GLOBAL

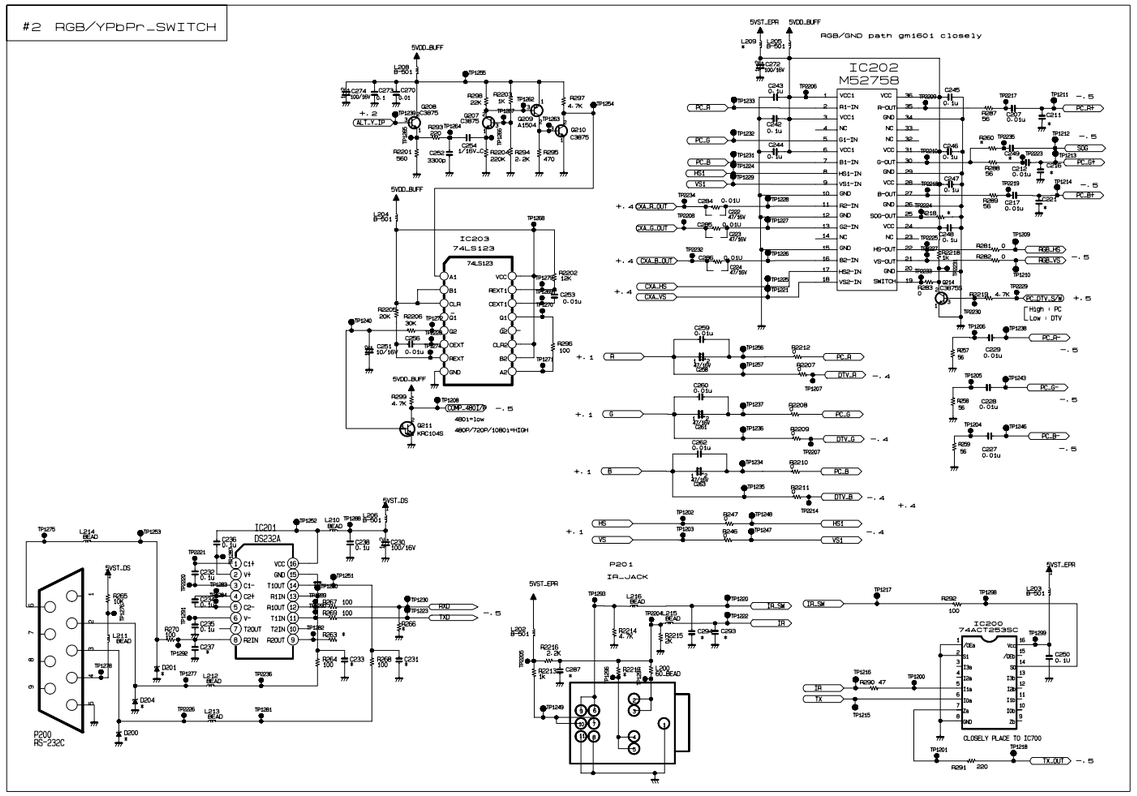
FOR XGA LP2



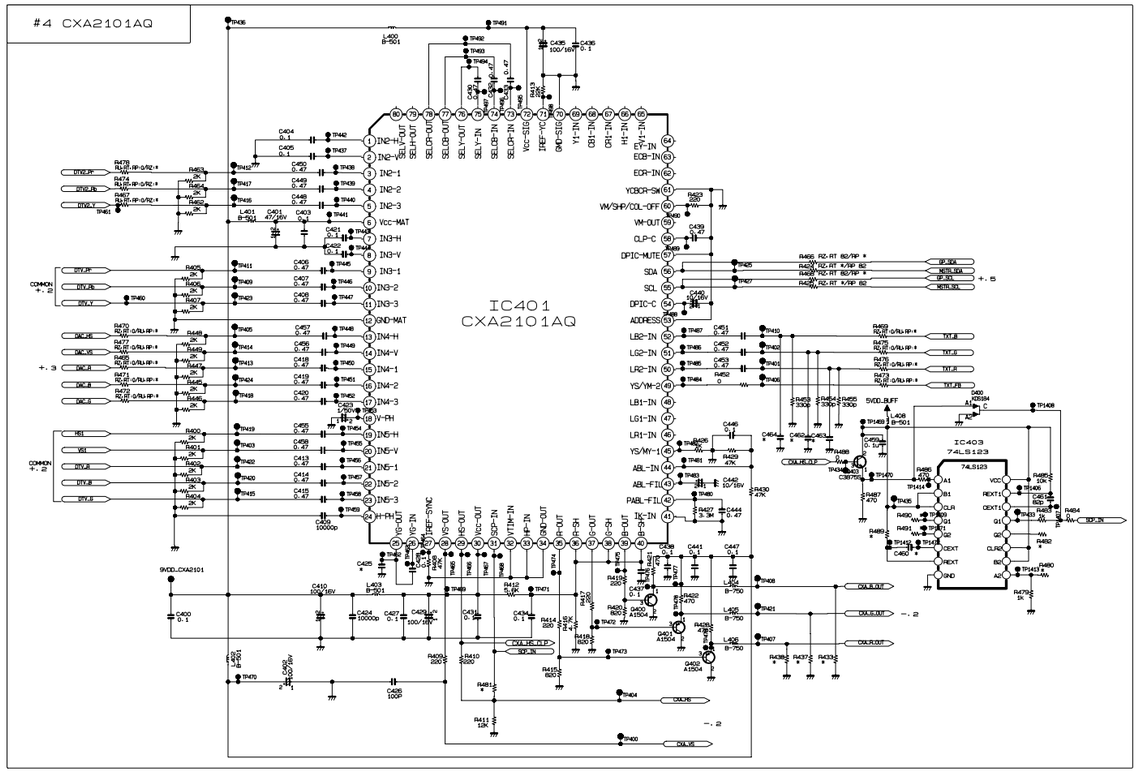
#3 S2300



#2 RGB/YPbPr_SWITCH



#4 CXA2101AQ



#5 SCALER(gm1601)

IC700 gm1601.left

IC700 gm1601.bottom

IC700 gm1601.top

IC700 gm1601.right

Same pain lenght gm1601 and DDR

Closely located gm1601

GND Seperate!

I2C ADDRESS : A2H and A3H

IC701 24LC32

#6 DDR RAM/F_ROM

IC800
HY5DU283222A
SDRAM 128MB

IC801
AM29LV160(1MByte)

ON (ROM) : 1-2, 4-5
OFF(Normal) : 2-3, 5-6

1M Memory:RB10~RB14~RB16 OPEN & RB30~RB31 10Kohm
512K Memory:RB10~RB16 10Kohm & RB27~RB29~RB32 SHORT

BOOTSTRAP HEADER
OPEN = 1
SHUNTED = 0

DOMADDR	
10:LOW	Use TCLK1
11:LOW	set all display output to '0'
12:LOW	
13:LOW	disable serial interface debug)
14:LOW	
15:LOW	
16:HIGH	use crystal)
17:LOW	
18:HIGH/LOW	16bit bus with OCM access external ROM)
19:LOW	

#7 IEP

IC500
LGDT4410 IEP

#9 POWER

#13 TEXT OPTION WITH RZ/AT(TELETEXT OPTION)

for text

#13 FAN

#10 POWER

M/No. -1300-1400

3.4VDD
L1302 B-501 C1309 0.1u C1313 0.01u C1312 100/16V TP1510 → 3.3VDD_2310_IO
L1309 B-501 C1307 0.1u C1311 0.01u C1310 100/16V TP1520 → 3.3VDD_2310_SDRAM
L1318 B-501 C1306 0.1u C1310 0.01u C1314 47/16V TP1517 → 3.3VDD_2310_R
L1321 B-501 C1303 0.1u C1304 0.01u C1305 100/16V TP1518 → 3.3VDD_IEP

D1301 RD5V6S
C1 A1C2 A2
IC1301 PQ05DZ1U
R1300 10K TP1509
TP1507
6VDD
C1352 0.1u
R1301 a
C1354 0.1u
C1353 470/16V
C1355 470/16V
L1307 B-501 C1356 0.1u C1359 0.01u C1362 100/16V TP1532 → 6VDD_BUFF

D1302 RD5V6S
C1 A1C2 A2
IC1302 PQ05DZ1U
R1302 10K TP1524
TP1506
5VST
C1365 0.1u
R1303 a
C1366 220/16V
C1367 0.1u
C1368 220/16V
L1316 B-501 C1369 0.1u C1371 0.01u C1373 100/16V TP1531 → 5VST_EPR
L1317 B-501 C1370 0.1u C1372 0.01u C1374 47/16V TP1516 → 5VST_DS

D1303 RD5V6S
C1 A1C2 A2
IC1303 AN1431T
TP1500
5VST
C1396 0.1u C1402 47/16V
L1303 B-501
C1393 0.1u C1391 470/16V
C1399 0.1u C1395 0.01u C1400 47/16V
D1306 RD5V6S
C1 A1C2
IC1304 MIC39100-1.8BS
TP1503
C1394 0.1u C1454 470/16V
L1326 B-501 C1405 0.1u C1397 0.01u C1398 100/16V TP1519 → 1.8VST_CORE
L1329 B-501 C1403 0.1u C1398 0.01u C1401 47/16V TP1511 → 1.8VST_DVI
L1327 B-501 C1407 0.1u C1408 0.01u C1406 47/16V TP1512 → 1.8VST_ADC

D1304 RD5V6S
C1 A1C2 A2
IC1305 PQ05DZ1U
R1305 10K TP1508
TP1505
5VST
C1397 0.1u C1384 47/16V
L1325 B-501
C1385 0.1u C1386 47/16V
C1387 0.1u C1390 0.01u C1396 100/16V TP1527 → 2.5VST_DDR

R1 R2 R3 R4 R5 R6 R7 R8

D1305 RD5V6S
C1 A1C2 A2
IC1306 BA033FP
TP1501
5VST
C1330 0.1u
C1331 470/16V
C1332 0.1u
C1333 470/16V
L1314 B-501 C1338 0.1u C1344 0.01u C1350 47/16VT → 3.3VST_LVDSB
L1315 B-501 C1339 0.1u C1345 0.01u C1351 47/16VT → 3.3VST_LVDSA
L1310 B-501 C1334 0.1u C1340 0.01u C1346 47/16VT → 3.3VST_LVDS
L1311 B-501 C1335 0.1u C1341 0.01u C1347 47/16VT → 3.3VST_DVI
L1312 B-501 C1336 0.1u C1342 0.01u C1348 47/16VT TP1523 → 3.3VST_ADC

D1307 RD5V6S
C1 A1C2 A2
IC1307 BA033FP
TP1502
5VST
C1412 0.1u
C1410 470/16V
C1417 0.1u
C1415 470/16V
L1313 B-501 C1337 0.1u C1343 0.01u C1349 47/16VT → 3.3VST_PLL
L1329 B-501 C1420 0.1u C1409 0.01u C1408 47/16VT → 3.3VST_DIG
L1331 B-501 C1421 0.1u C1411 0.01u C1414 47/16VT → 3.3VST_I/O_BGA
L1332 B-501 C1422 0.1u C1424 0.01u C1418 47/16VT → 3.3VST_LBADC
L1328 B-501 C1423 0.1u C1413 0.01u C1419 47/16VT → 3.3VST_CTL

PREAMP & LOCAL KEY

P9004 10P1M
KEY1 10
GND 9
KEY2 8
GND 7
5VST_EPR 6
GND 5
TX 4
GND 3
LED_R 2
LED_G 1
L001 100H
C001 0.1u
C002 47/16V
PA001 PRE-AMP
VCC TX GND
D001 1N4148
R002 2K
R003 2K
Q001 C3875
L0004 3K
L0005 600
D003 100
Q002 C3875
LD001 LED
R006 2K
R007 2K
R008 2K
R009 2K
R010 2K
R011 2K
SW001 SW002 SW003 SW004 SW005 SW006

#12 42PY

INDEX

FOR XGA

5VST_DS
L1500 BEAD
TP1501
R1501 4.7K
Q1501 2SD603
R1502 4.7K
D1 D2 D3 D4 1N4148
C1 C2 C3 C4 100P/50V
SCL_EXT R1503 0
SP_SCL R1504 *
TP1504
SDA_EXT R1505 0
SP_SDA R1506 *
TP1503
Q1502 2SD603
C1501 0.1u
C1503 0.1u
TP1502
TP1600
SCL_OUT
SDA_OUT
5VST
9VCC_INDEX
P1600 10P1M
TX
LED_R
LED_G
SCL_OUT
SDA_OUT
12VCON
P1601 SM10B-SHF-1AA-TF
TP1645
TP1646

11 LVDS RECEIVER

3.3VDD_THINE
TP1516
R1124 0
C1101 0.1u
C1102 0.1u
R1101 R1102
3.3VDD_THINE
R1103 R1104
TP1004
TP1021 TP1022
C1109 C1110
IC1102 THINE
TP1027 TP1028 TP1029 TP1030
TP1038 TP1039 TP1040 TP1041 TP1042 TP1032 TP1033 TP1034 TP1035 TP1036 TP1037
R1105 R1106 R1107 R1108 R1109 R1110 R1111
TP1031
3.3VDD_THINE
R1112 R1123
C1120 C1121
3.4VDD
TP1043
C1426 0.01u C1427 0.1u C1428 100u/16V
TP1044
3.3VDD_THINE
P700 39P1.25S

#1 2 TUNER

RZ ANALOG
FOR M/P
second edition

TP135 STU_SW1
TP134 BOOST
TP133 MTU_SW1
AGC_FB
TU_SUB
SIF
5V_TU
TU_MAIN
TV_VOUT
AM_AUDIO

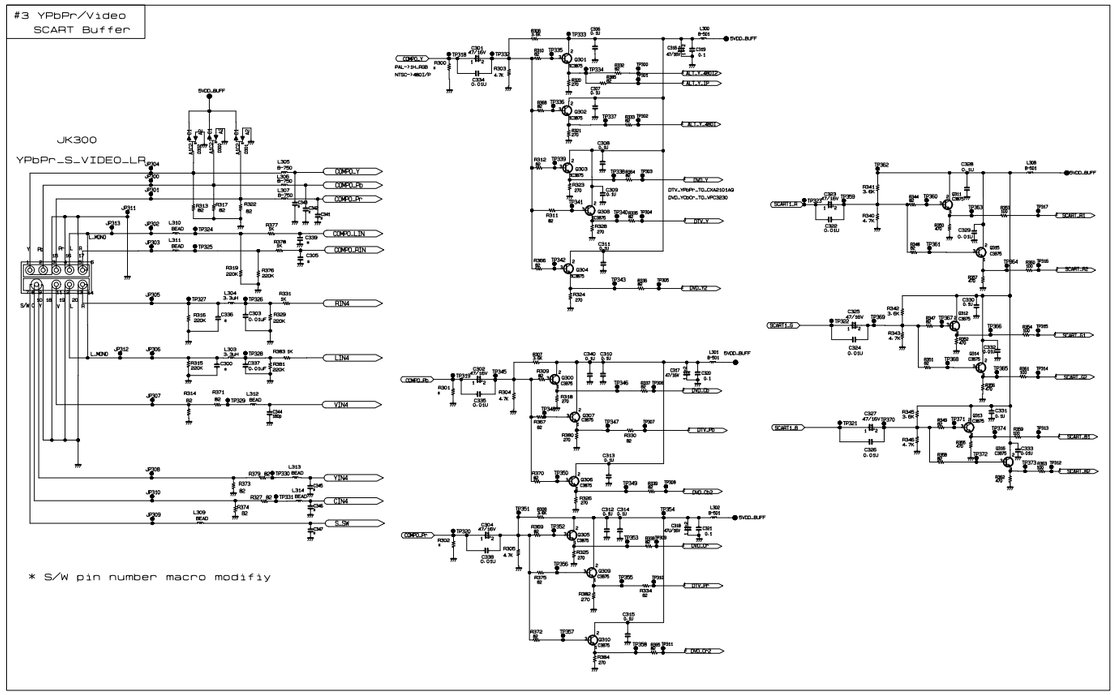
TU101
TUNER(SUB)
AUDIO SIF AFT VIDEO NC NC NC GND NC 32V 5V SDA SCL AS CTR AGC
C100 0.01uF
R100 82
R101 470
TP131
TP132
R141 2.2K
R103 390
R102 470
Q100 A1504
TP130
TP101
C102 4.7uF/50V
C101 0.01uF
R140 0
TP152
C104 0.01uF
TP151
C106 0.01uF
Q101
R106
C109 1
R119 470
R120 82
TP136
TP137
Q106 A1504
R118 4.7K
C108 100P
L102 B-501
C123 0.01uF
R125 270
R126 220
R128 150
Q108 A1504
R127 200
TP141
Q159 A1504
R122 4.7K
TP124
TP140
Q107 C3875S
R121 0
C132 27000P
R123 1K
TP139
R124 1K
C138 10000P
C138 470uF/16V
33V_TU
L104 B-501
L105 B-501
L101 B-501
C126 0.01uF
C127 4.7uF/50V
C105 0.01uF
C107 470uF/16V
C103 220
C104 0.01uF
R154 220
R155 220
TP120
TP122
TP123
TP121
TP154
R143 0
R112 10
C152 470uF/16V
C120 0.01uF
R136 220
C117 220
R137 220
C118 0.01uF
C119 0.01u
TP139
TP145
R113 1K
Q102 A1504
TP143
R107 10K
Q103 C3875S TR_NPN
C140 0.01uF
TP146
Q104 C3875S TR_NPN
R108 a
C114 4.7uF/50V
C155 0.01uF
C111 4.7uF/50V
C115 0.01uF
R114 1K
Q105 C3875S
R110 10K
R111 82
TP156
R115 0
TP157
TP125
TP126
TP127
TP124
TP143
R142 0
TP105
TP138
TP100
SDA_A
SCL_A

TU100
TUNER(MAIN)
AUDIO SIF AFT VIDEO NC NC NC GND NC 32V 5V SDA SCL AS CTR AGC
TP102 470uF/16V
TP103
TP104
R221 0
C132 27000P
R123 1K
TP139
R124 1K
C138 10000P
IC100
M62320FP
SCL_A
SDA_A
COUNT0
COUNT1
S0 SCL SDA D0 D1 D2 D3 GND
CS0 CS1 CS2 VDD D7 D6 D5 D4
TP108 TP109 TP110 TP106 TP112 TP145
R133 100 R109 100 R138 100 R134 100 R135 100
TP144 TP116 TP130 TP114 TP113
R129 0 R130 0 R131 0 R132 0 R137 100
C125 0.1u C124 470uF/16V
R136 4.7K R140 4
L103 B-501
5V_TU
H: SECAM
L: else
BOOST
C130 0.1u C131 0.1uF
Q110 RK583
Q111 RK583
R144 4.7K R145 4.7K
TP118 TP119 TP117 TP115
MSTR_SCL
MSTR_SDA
SCL_A
SDA_A

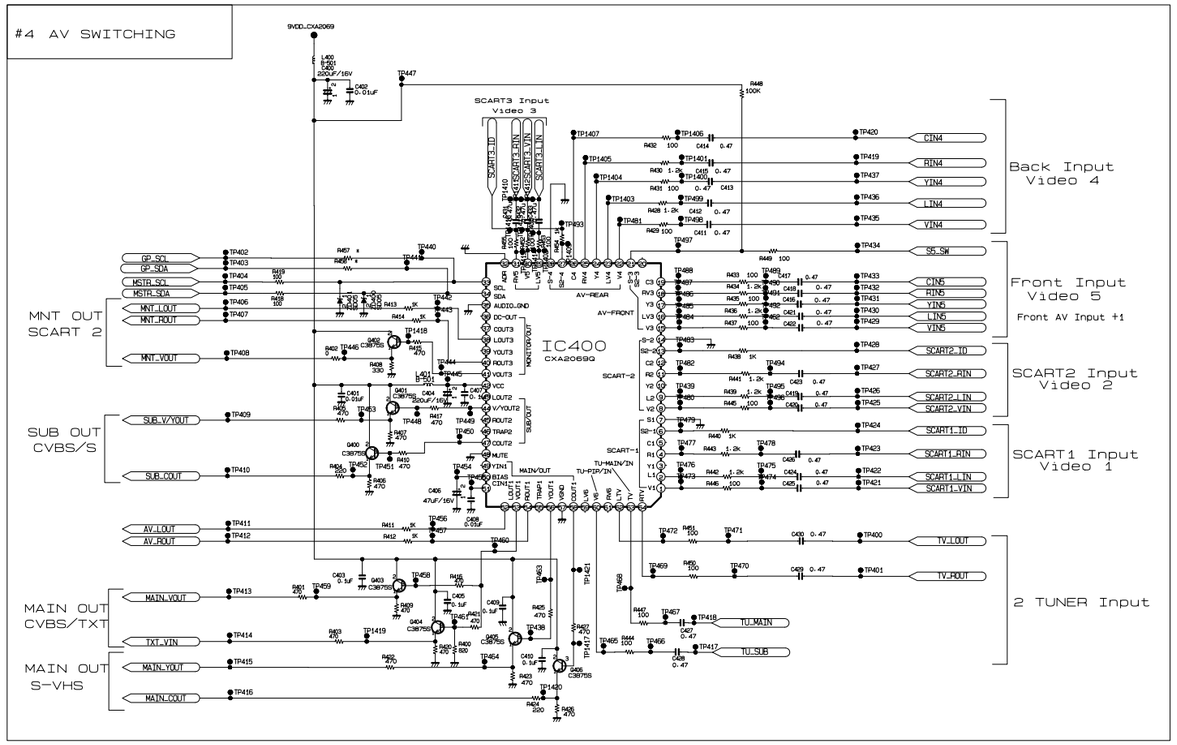
SIDE_AV

P101 10P1M
GND VIN GND VIN GND VIN SCSS SCSS GND VIN GND VIN
R1 R2 R3 R4 R5 R6 R7 R8 R9 R10 R11 R12 R13 R14 R15 R16 R17 R18 R19 R20 R21 R22 R23 R24 R25 R26 R27 R28 R29 R30 R31 R32 R33 R34 R35 R36 R37 R38 R39 R40

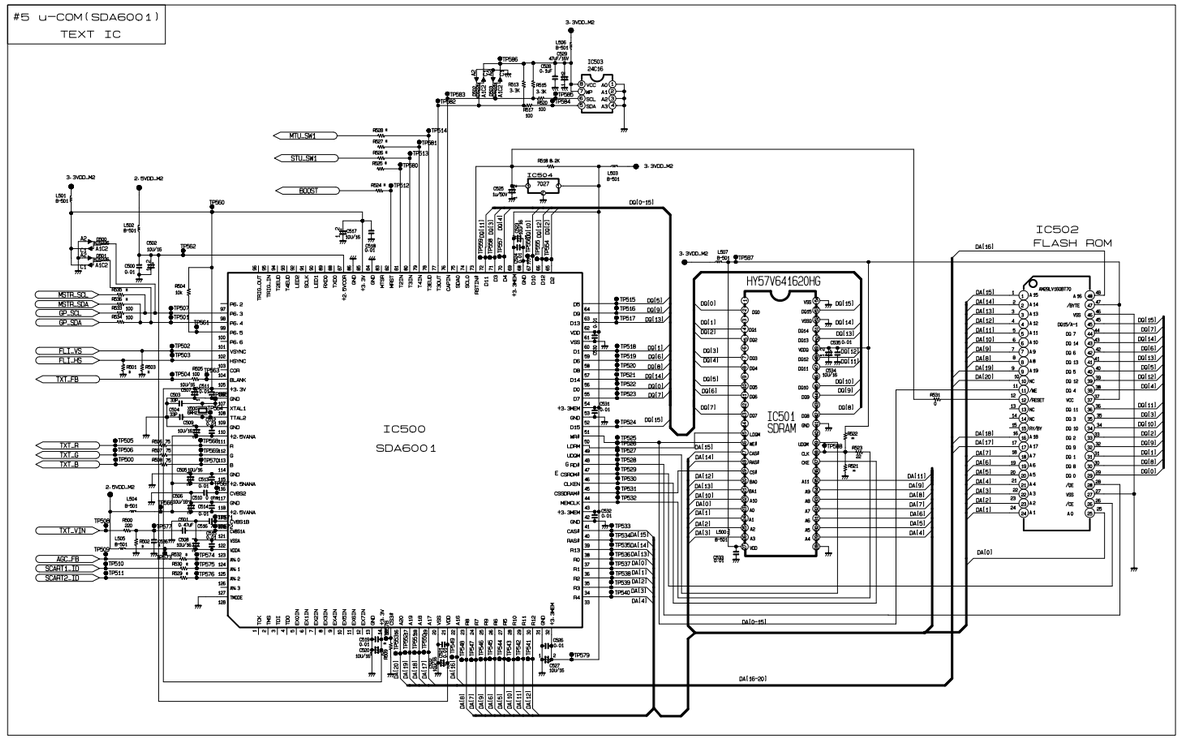
#3 YPbPr/Video SCART Buffer



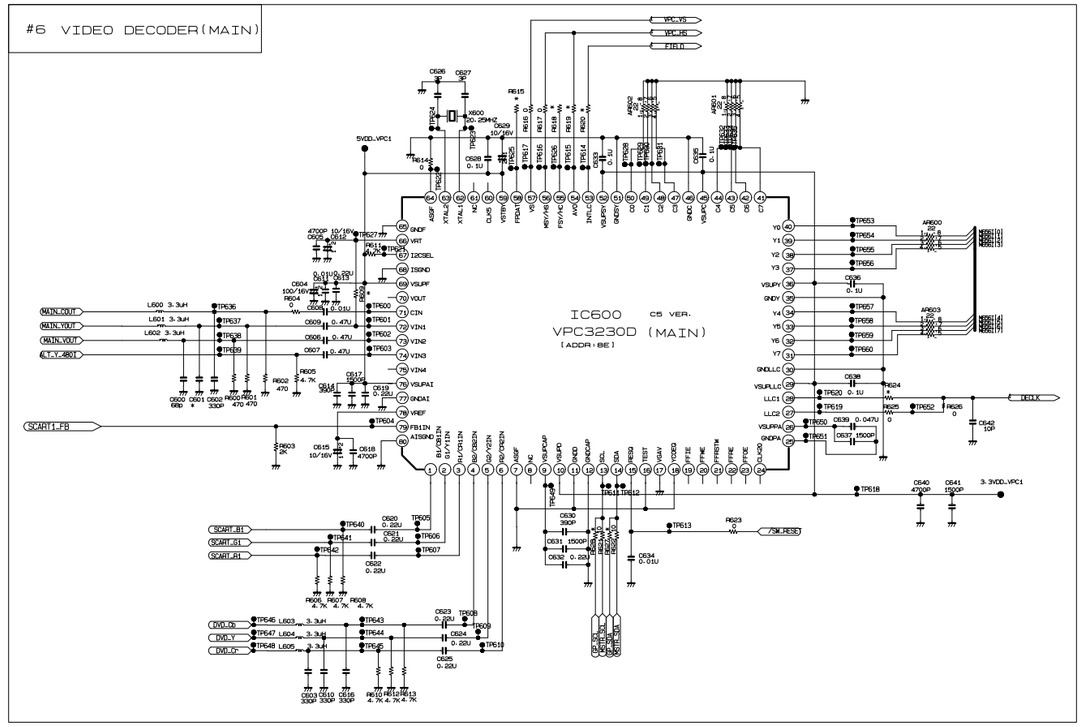
#4 AV SWITCHING



#5 u-COM(SDA6001) TEXT IC



#6 VIDEO DECODER(MAIN)



#7 VIDEO DECODER(SUB)

IC700 C5 VER.
VPC3230D (SUB)
(ADDR:8C)

#14 COMP2_480I/P WITH RT/RP/RUIAV OPTION

#8 Digital Audio

IC800
MSP4410G C13

IC801
NSP6241B

COUNT1	COUNT0	Delay Time
0	0	21ms
1	0	43ms
0	1	64ms
1	1	85ms

#9 CONNECTOR

P101A
31PIN

P102A
31PIN

P103A
31PIN

P104A
12PIN

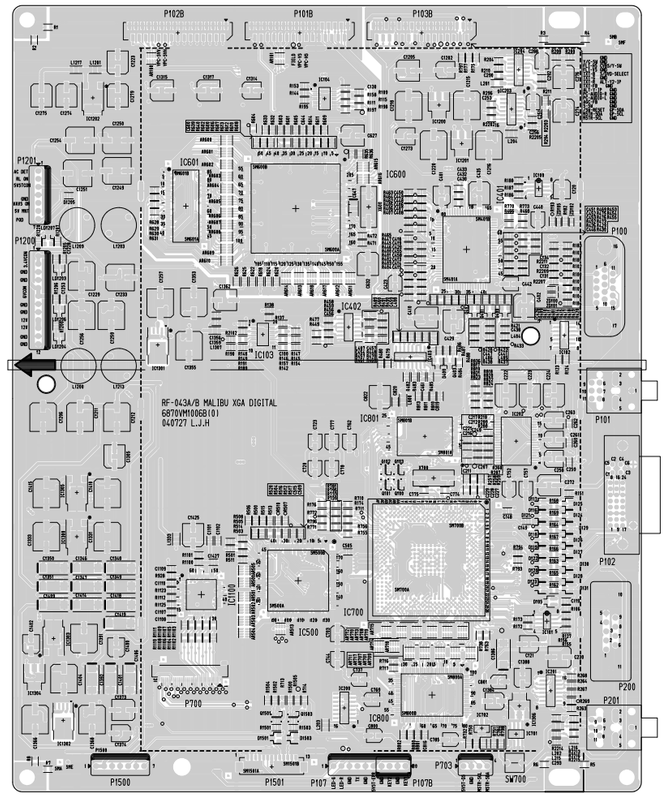
#10 POWER

CON_10P

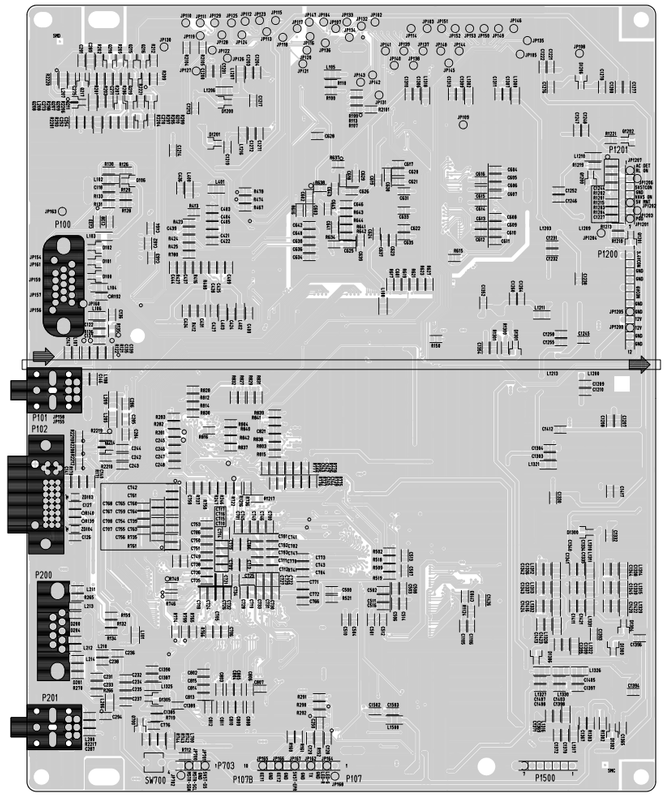
Index

PRINTED CIRCUIT BOARD

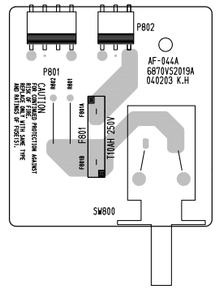
MAIN (TOP)



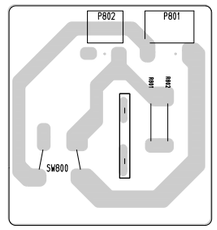
MAIN (BOTTOM)



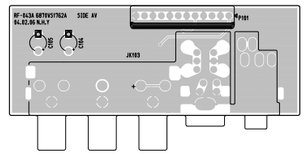
POWER S/W(TOP)



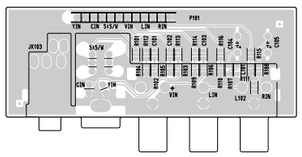
POWER S/W(BOTTOM)



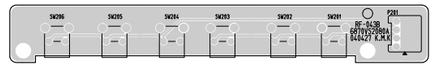
SIDE A/V(TOP)



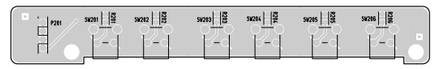
SIDE A/V(BOTTOM)



CONTROL(TOP)

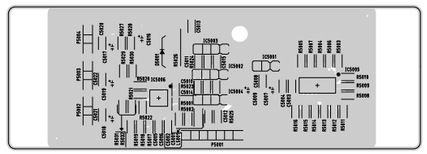


CONTROL(BOTTOM)



FAN CONTROL(TOP)

FAN CONTROL(BOTTOM)



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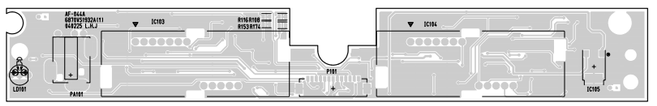
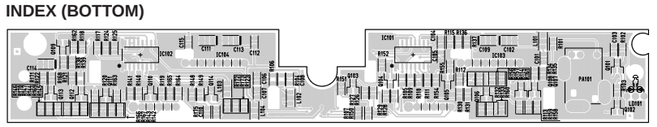
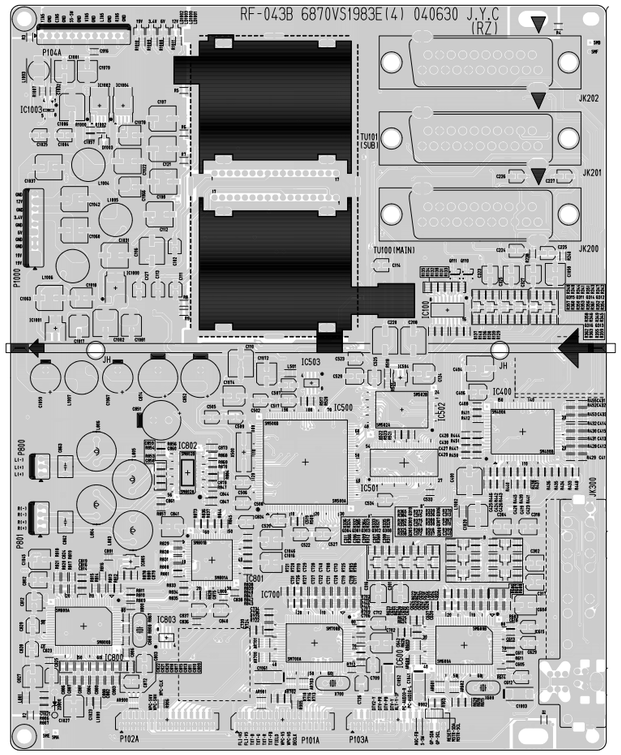


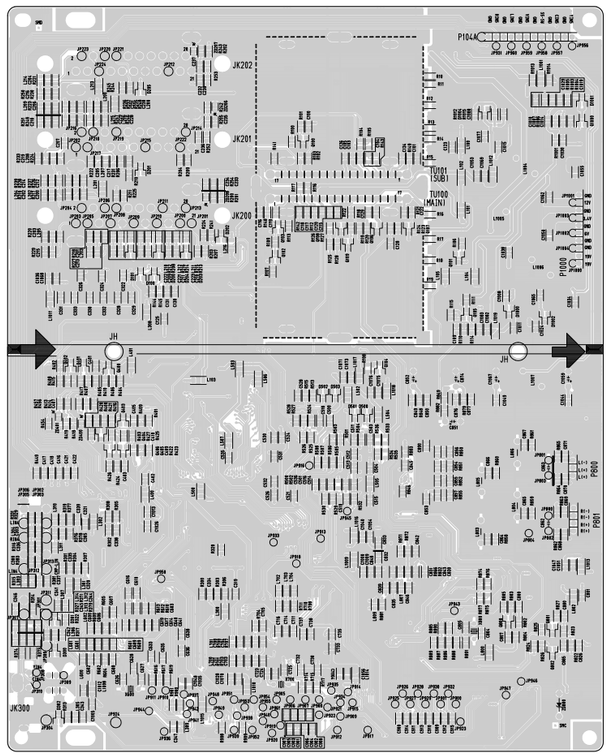
INDEX (BOTTOM)



TUNER(TOP)



TUNER(BOTTOM)



LG Electronics Inc.

P/NO : 3828VD0161U

Nov., 2004
Printed in Korea